Central Management System User's Manual

- CMS Software Version 2.0.1.6 -

Revision 1.0.1

Artnix
www.artnix.co.kr

HANKOOK INDUSTRY BLDG, #864-3, GWANYANG, DONGAN, ANYANG, GYEONGKI, KOREA
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1. Introduction

Central management software allows administrator to manage several DVR systems through network located in different sites from one point of control. You can monitor the DVRs through the network at any time. You can also proceed to set up the configuration of the remote system.

Unlimited number of connections and devices

This CMS is an enterprise level software which encompasses monitoring of up to 64 different sites in one window and can have maximum four monitoring windows. This CMS enables recording of an unlimited number of cameras. The CMS connects, monitors, manages and records all Artnix H.264 DVR family products and some third party IP servers.

Unlimited multiple level E-map

The location of a site does not have to be restricted to just one map. Different views and different angles can be added for strategic camera placement and status updates.

Multiple monitor support

This CMS allows the detachment and the attachment of its six major components like Health status, E-map, Playback, Preview, and Groups for simultaneous, detailed control and accurate monitoring at a glance.

Status report

This CMS reports the status of each device in real-time so that immediate responses can be deployed.

Visual and Audio cues are displayed in various screens to attract an immediate attention.

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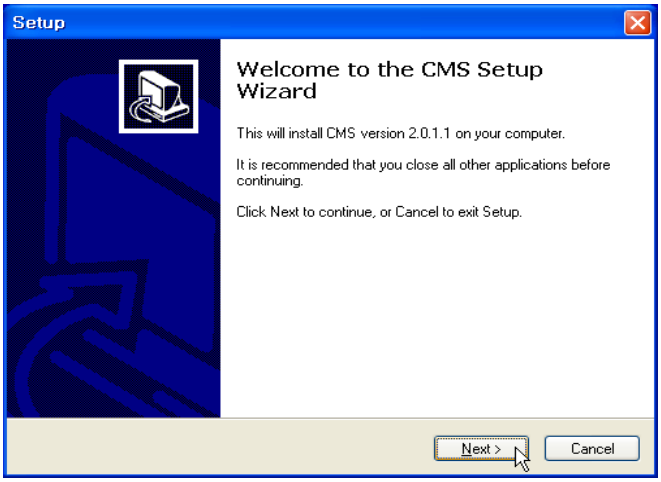
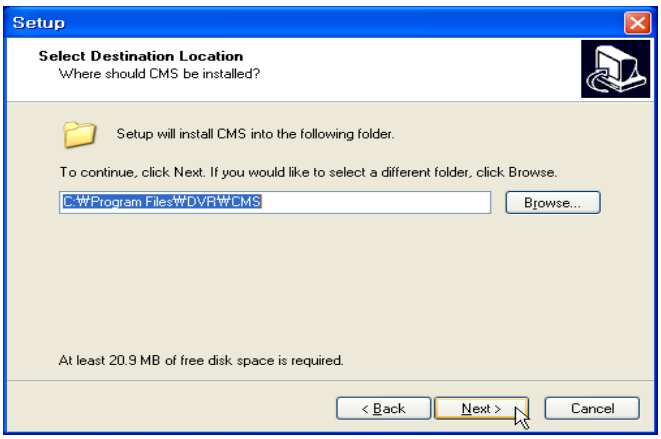
2. Installation


Setup
Welcome to the CMS Setup Wizard
This will install CMS version 2.0.1.1 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

Insert the program CD into the CD/DVD drive of the computer and you can see the CMS_Setup.exe file.

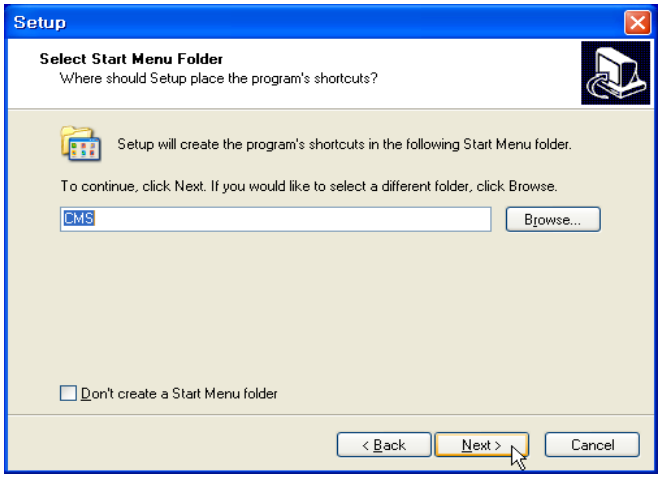
Execute it by double-click on the setup file, and the program will start the installation.

Click on Next to continue.


Setup
Select Destination Location
Where should CMS be installed?
Setup will install CMS into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:₩Program Files₩DVR₩CMS
Browse...
At least 20.9 MB of free disk space is required.
< Back
Next >
Cancel

The CMS will be installed in its default folder of C:\Program Files\DVR\CMS. If the folder needs to be changed, click on "Browse…" button and then select a different folder.

If you select the folder to be installed, click the Next button to continue.


Setup
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
CMS
Browse...
Don't create a Start Menu folder
< Back
Next >
Cancel

The program's shortcuts will be installed in its default folder of CMS. If the folder needs to be changed, click on "Browse…" button and then select a different folder.

And if you don't want to create the program's shortcut in the start menu, check the "Don't create a Start Menu folder" below.

If you select the folder to be installed, click the Next button to continue.

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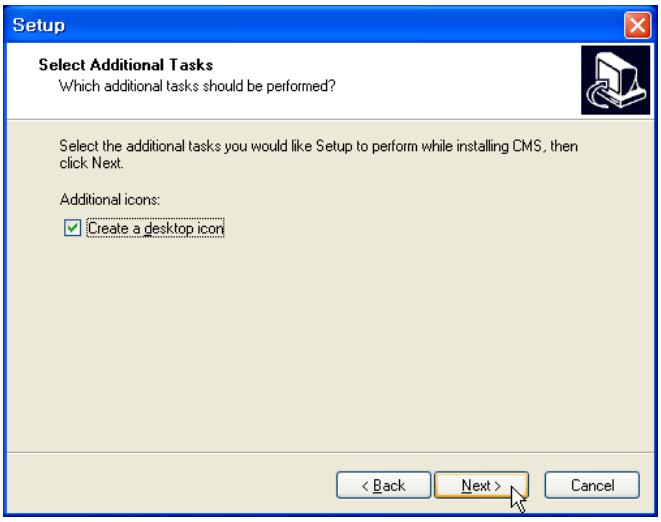
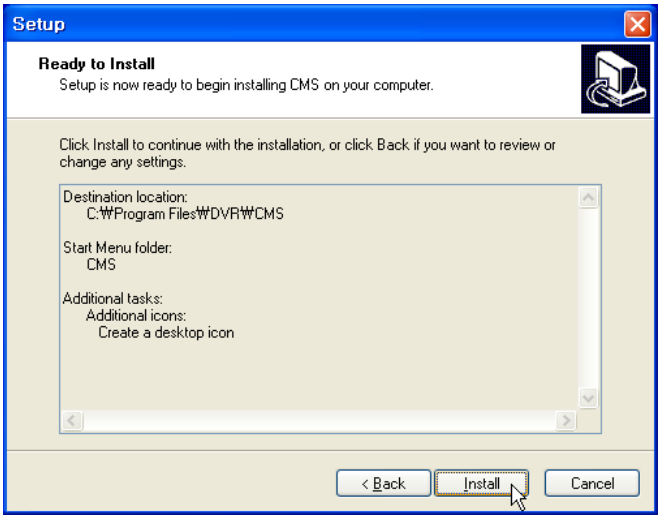
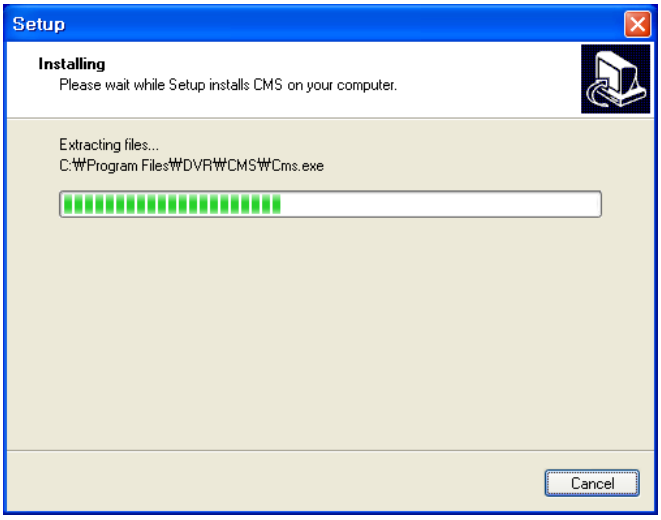

Setup
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing CMS, then click Next.
Additional icons:
Create a desktop icon
< Back
Next >
Cancel

If you don't want to create a desktop icon, do not check the "Create a desktop icon".

Click the Next button.



Click the Install button to install CMS.



And the program will start the installation.

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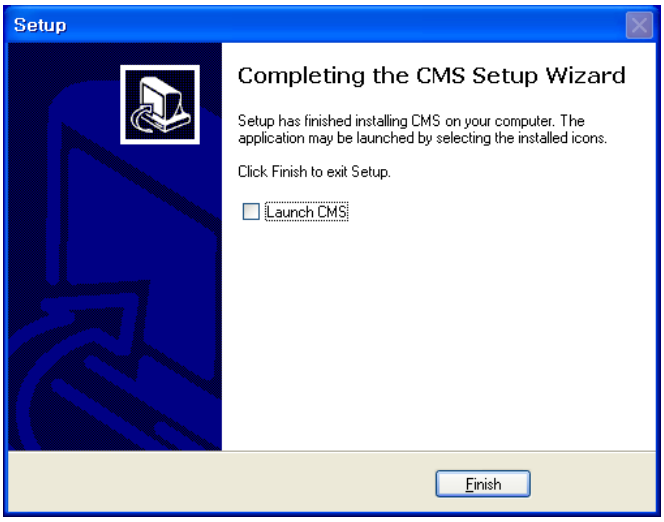
Setup
Completing the CMS Setup Wizard
Setup has finished installing CMS on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Launch CMS
Finish

You can execute 'CMS' immediately by checking the check box, 'Launch CMS'.

Click the Finish button to install CMS

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3. Features and Specification

System Requirements		
Operating System	CPU OS RAM Network Card Graphic Card Video Memory DirectX	Core 2 Duo 2.0 GHz or higher Windows XP Professional Windows Vista Windows 7 2GB MB or higher 10/100/1000 Giga Byte Ethernet ATI7000, SiS650, Geforce200 or higher recommended 256MB recommended DirectX 9.0 or higher recommended
CMS Features		
Compatible Artnix DVR Series	30H+, 40H+, 50H+, 70H+, 40H, 70H, Blade	
User Level Authority Setup	Yes	
Multi-Language Support	English, Traditional Chinese, Japanese, Simplified Chinese	
Log View	Yes	
Display		
Live Monitor Display	Multiple windows up to 4, each can have at most 64 channels. 4/8/9/16/21/36/56/64 split screen display Real-time low-latency monitoring & recording.	
Group Monitor	(Live Monitor Display x 4): 256 channel display maximum.	
Multi-Monitor Output	Detachable 4 kinds of windows (Main, E-map, Monitoring Status & Live) + add-on live windows up to 3.	
De-interlace	Automatically activated for D1 video	
Event Display	Alarm(Sensor), Video Loss, Motion Detection	
E-Map	Multiple level e-map supported	

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Snapshot	JPEG/BMP Capture and print out
Record	
Record Mode (remote recording of the transferred video)	Manual Recording Event (Motion / Sensor / Video Loss) Recording. Flexible Schedule Recording.
Local Data Search	Health Log Search, Event Search, File Search.
DVR Control	
DVR Connect Mode	Connection by MAC address, IP and domain name of DVR.
Relay Control	Yes
PTZ Control	Yes
Audio In/Out	Yes, full duplex transmission
Auto Connection	Yes
Remote Menu Setup	Yes
Firmware Update	Yes
Player	
Remote Playback	Local playback of the recording in the DVR Forward and reverse playback Fast playback in terms of 2x/4x/8x/16x/32x/64x/128x Slow playback in terms of 2x/4x/8x/16x/32x/64x
Remote File Search	Event, Calendar, Time Search.
Local File Playback	Supported. Playback for the locally saved video.

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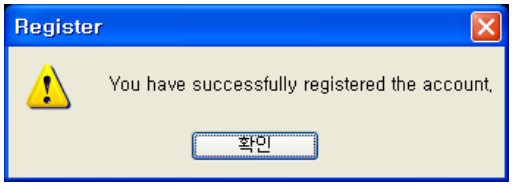
4. Log-In

4.1 Log-In

[Administrator's password]

At first execution, administrator's password has to be registered and keep the password in mind. You can refer the below picture. There is no way to recover once if administrator's password is forgotten.

The below notification will be shown once it is registered successfully.



NOTE: Normal user account can be added in the register menu of the CMS.

[Log-in]

Input a user name and a Password and then click "OK" button. If not correct, a log-in window will be prompted again.

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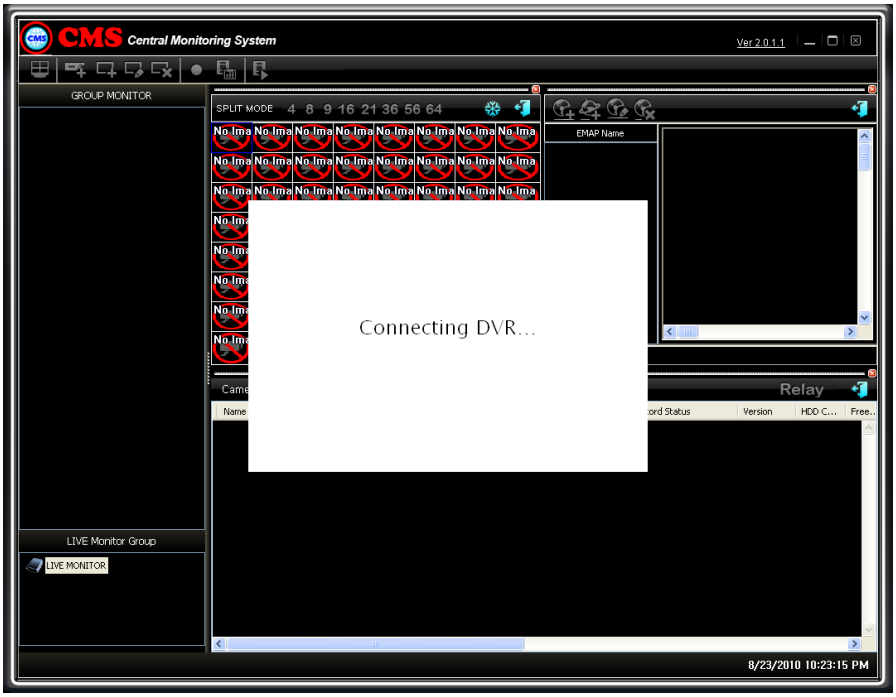
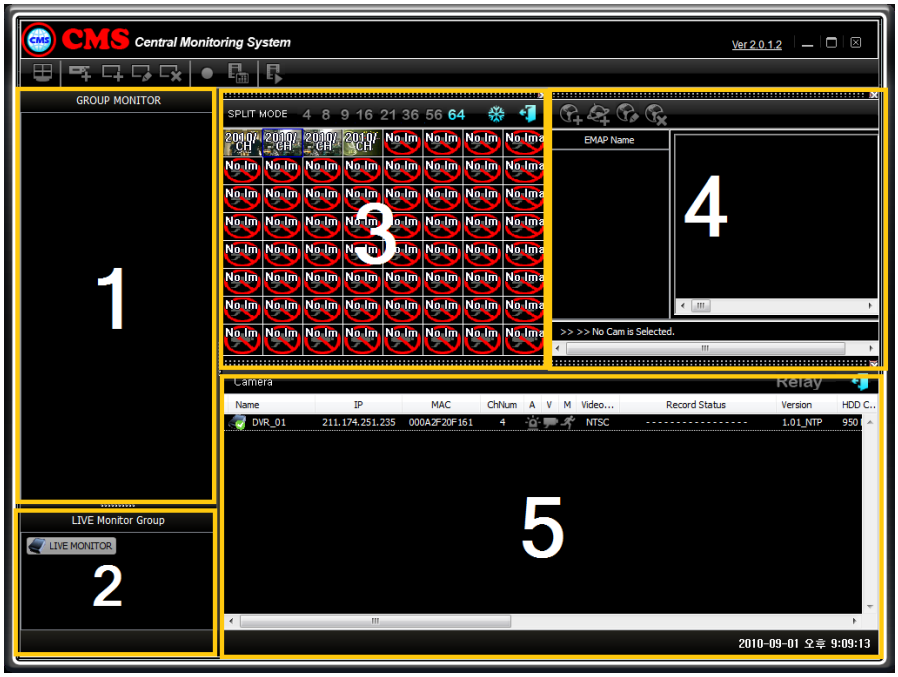
After checking user account and password, CMS loading screen like below appears and CMS is going to be ready.





NOTE: The last connected channels will be connected and shown on the live window automatically.

The name of each window in the default view.

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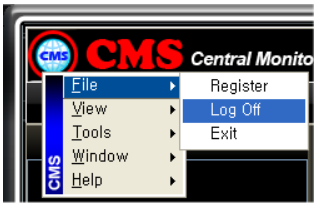
- Window 1: Group Monitor: the tree view of the managing group.
- Window 2: Live Monitor Group, listing and managing the 'Live Monitor' window.
- Window 3: 'Live Monitor' window, showing the camera.
- Window 4: 'E-Map Monitor'.
- Window 5: 'DVR Status Monitor', showing the health and the status of the DVR

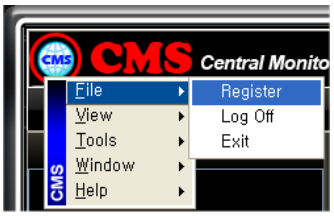
4.2 Log Off

If you want to switch to other user account or log out this session, choose the 'Log Off' menu under the 'File' menu. Please refer to the below screen..



4.3 Register

Using this menu, the Administrator can create and edit user account.



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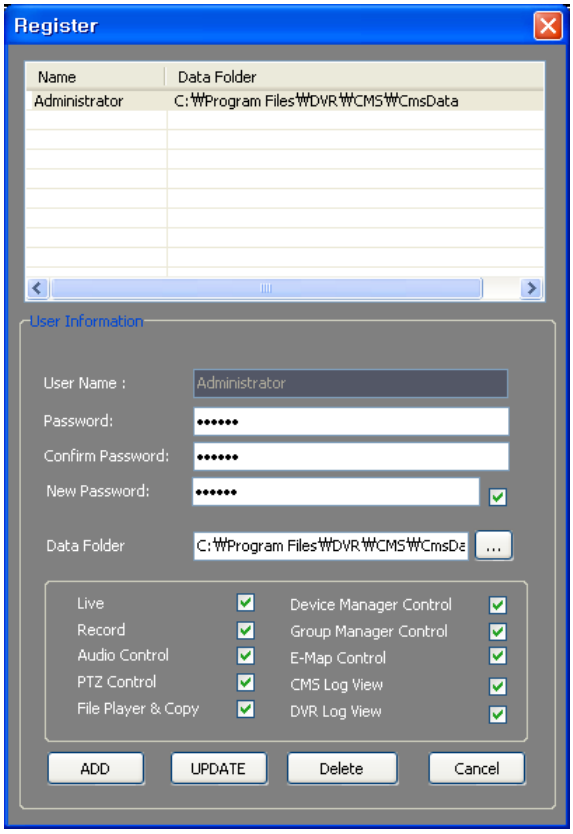

[Create]

To create user account,

- Click 'ADD' then CMS is ready to get user account information.
- Input the user's information and check the authority for the each function.
- Authority List
  - Live
  - Record
  - Audio Control
  - File Player & Copy
  - Device Manager Control
  - Group Manager Control
  - E-Map Control
  - CMS Log View
  - DVR Log View
- Click 'UPDATE'.

[Edit]

To edit user account

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- Select user account in the list.
- Modify the user's information and the authority for the each function.
- Click 'UPDATE'.

[Buttons]

Clicking on this make the CMS get ready to accept new account.

After creating or editing user account, you must click 'UPDATE' in order to apply it.

The passwords in 'PASSWORD' and 'CONFIRM PASSWORD' should be identical.

By clicking the DELETE icon, the selected user account will be deleted.

By clicking this, all the modification are ignored and the register window is closed.

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5. Connection

5.1 DVR Connection [Device Manager]

You need to open the 'Device Manager' window to manage the connection. To click the 'Device Manager' under the 'View' on the menu opens the 'Device Manager'.

The 'Device Manger' manages

- Adding/Editing/Deleting DVR site
- Connection/Disconnection
- Upgrading the F/W of DVR
- Calling the menu page of DVR
- Opening the log of DVR
- Scanning the connected DVR in the LAN

NOTE: the number of connection is not restricted.

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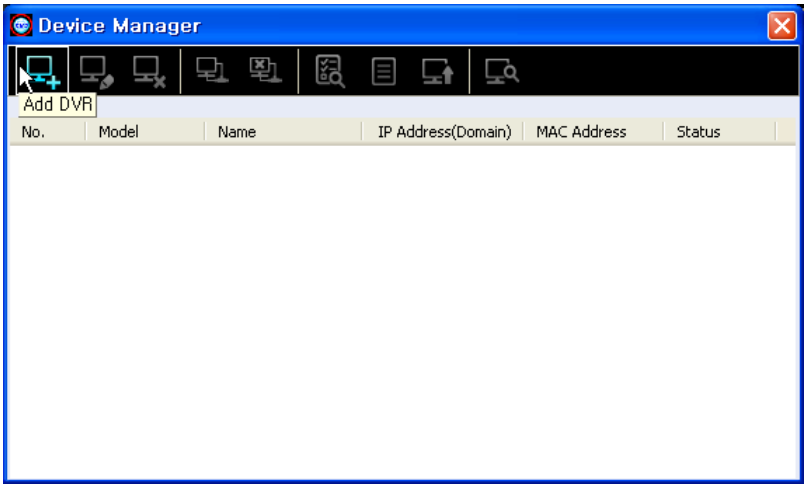
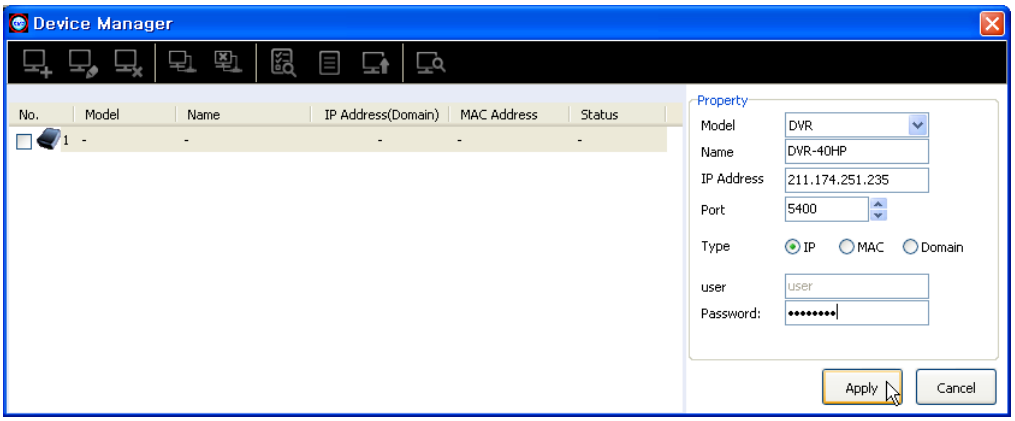
[Add DVR]



By clicking on the Add DVR icon, you can enter the window with the DVR details like the IP address, MAC Address or domain name.



- **MODEL**

  Series of the DVR, other selections are reserved for the future use.

- **Name**

  The name of site defined by user

- **IP Address/MAC Address/Domain**

  The IP address, MAC address or Domain name of the DVR

- **Port**

  Port number for accessing the DVR (default: 5400)

- **Type**

  The information used for connection.

- **IP**

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CMS connects DVR with the information of IP address.

- **MAC**

  CMS connects DVR with the information of MAC address.

- **Domain**

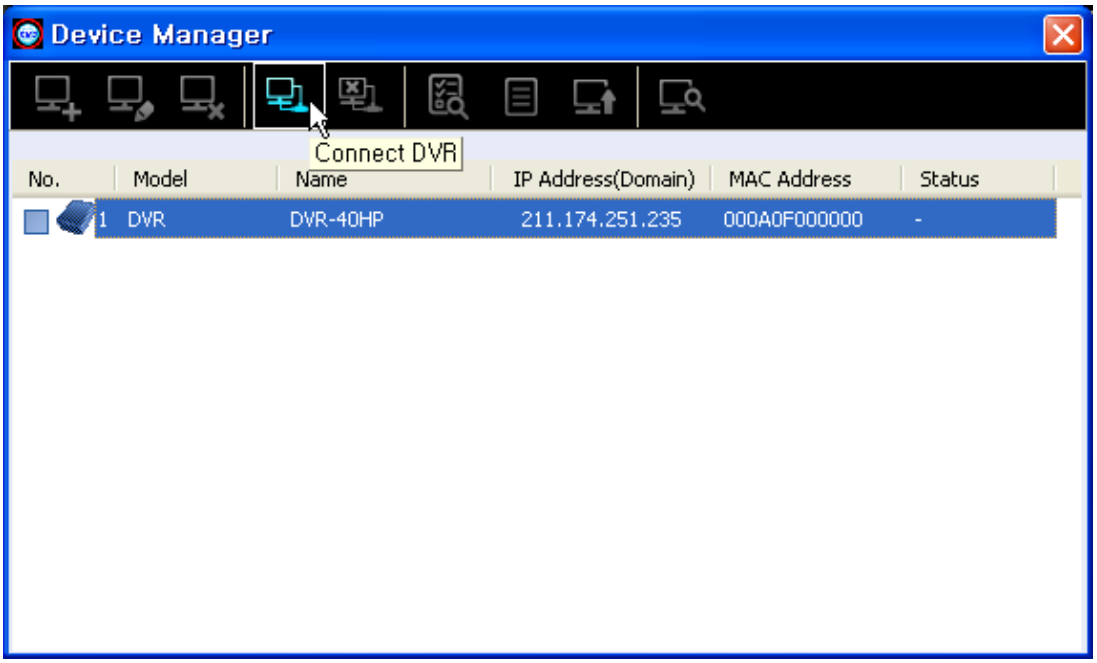
  CMS connects DVR with the domain name of the DVR

  NOTE: you can register and get the domain name of the DVR at the DDNS server of Artnix. (http://www.remocam.net/ddns)

- **Password**

  The password of the DVR

To save and apply the entered information, click the 'Apply'. In result, new DVR site is registered in the CMS and displayed as below window.



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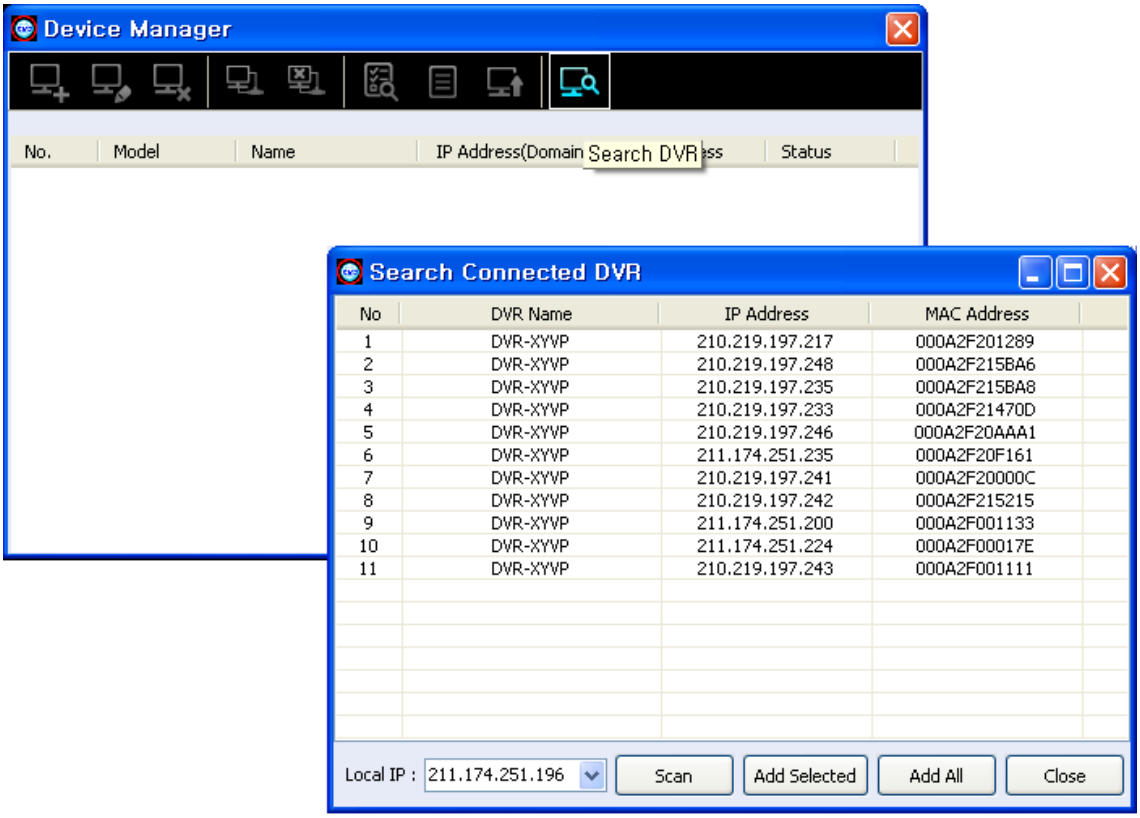
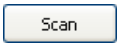
[Scan LAN and Add DVR]

By clicking on the Search DVR icon, 'Search Connected DVR' window will be open and the DVRs in the LAN will be listed. Refer to the below picture.

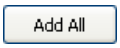


Display the IP address of the PC on which CMS is working. When there are multiple network cards with the different domain, you have to choose the proper local domain to be scanned.



Scan the LAN and find & list the DVR found.

After selection the DVR from the list, click 'Add Selected' in order to add this DVR to the 'Device Manager'.



Add all the DVRs in the list to the 'Device Manager'.

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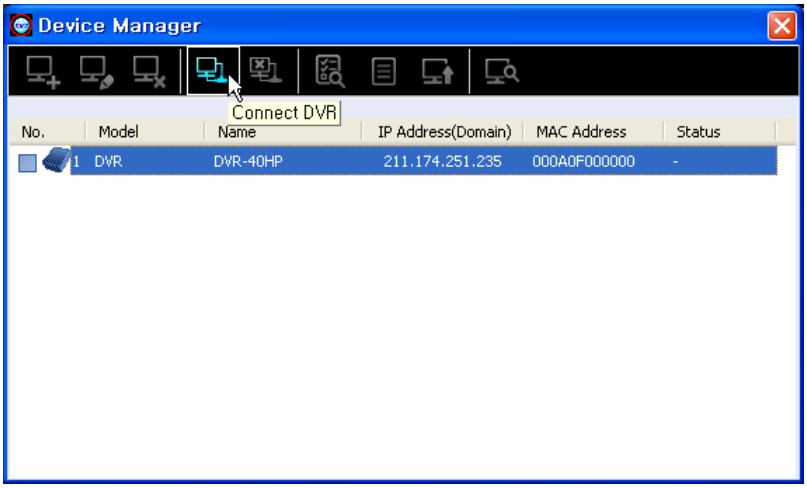
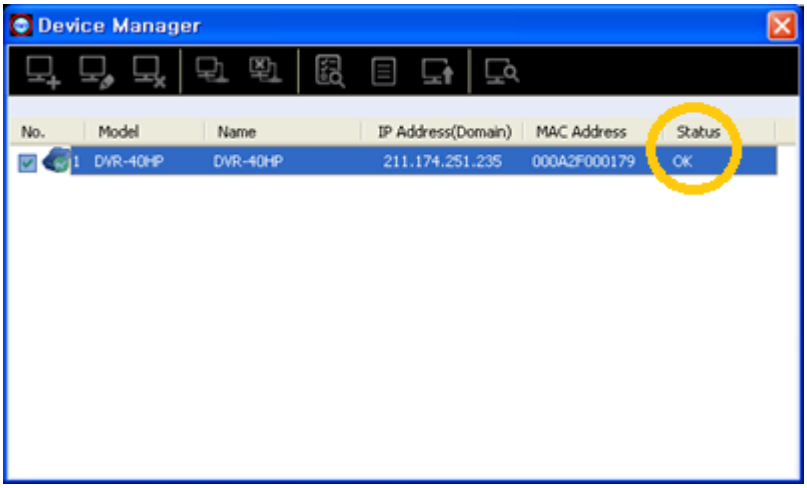
[Connect DVR]

Select one DVR from the list or Check the checkbox for the multiple selections. And click 'Connect DVR' icon on the tool bar.



If the connection succeed, the 'Status' of the DVR will show 'OK' in some seconds as the below window.



By clicking this icon, User can disconnect the selected DVR. Multiple selections using the checkbox are also available.

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[Edit and Delete DVR]

Edit the connection information of the selected DVR. Multiple selections using the checkbox are also available.

Delete the selected DVR from the list of the 'Device Manager'. Multiple selections using the checkbox are also available.

NOTE: Some of common error messages appearing under the 'Status' column of the Device Manager.

- Get IP / Port Failed

  If the MAC address is used for connection, it failed to get the IP information from the Dynamic IP server, which is set in the 'Option' window.

- Fail to Connect

  Connection failed. Please check the IP address or MAC address & Network connectivity.

- Wrong Password

  Incorrect password used. Check and input the correct password.

- Connecting

  DVR is on establishing connection with the CMS.

- Stopped

  This indicates that the DVR is disconnected completely.

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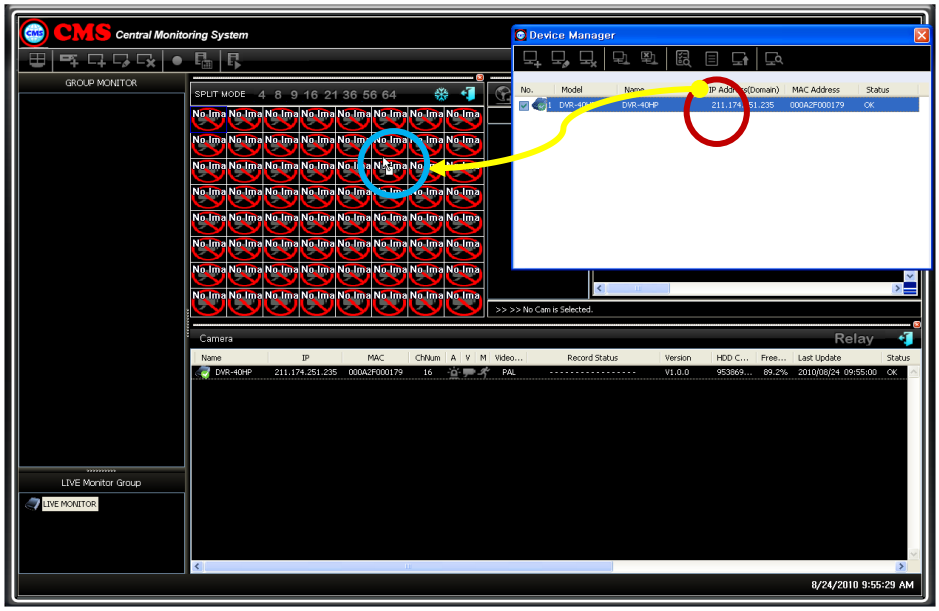
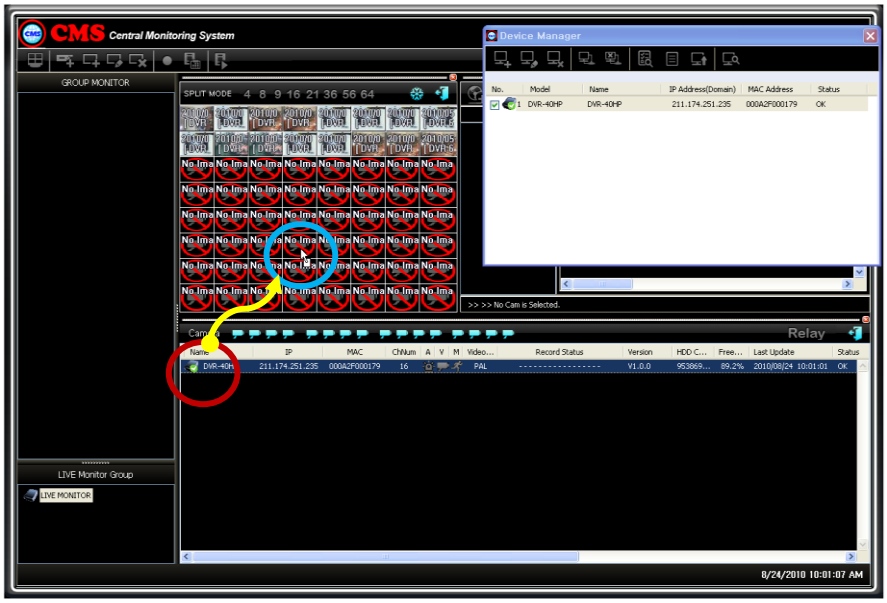
[Live Monitoring of DVR]

When the 'Status' of the DVR in the 'Device Manager' is 'OK', you can drag & drop the DVR from the 'Device Manger' to the 'Live Monitor' window. Finally the cameras of the DVR will be open at the dropped position on the 'Live Monitor' window.



Similarly, you can drag & drop the DVR from the 'DVR Status Monitor' window to the 'Live Monitor' window as shown in the below screen.



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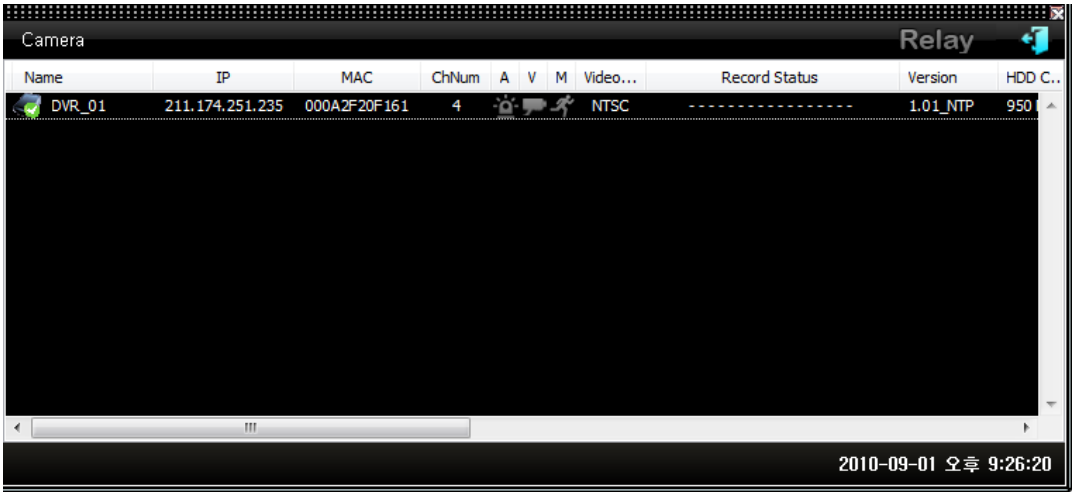
[DVR Status Monitor]

This window shows the health and the status of DVR.



- **Name:**

  Show the name of the DVR registered in the 'Device Manager'.

- **IP Address**

  Show the IP address of the DVR.

- **MAC Address**

  Show the MAC address of the DVR.

- **Ch Num**

  Show the number of maximum channels of the DVR.

-

  This icon displays the event situation standing for A ➔ Alarm, V ➔ Video Loss and M ➔ Motion Detection.

NOTE: Event Indication on the 'Live Monitor' window

If the events are detected in the DVR and transferred, the event indications will be overlaid on the corresponding channel if it is display on the 'Live Monitor' window.

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5.2 Live Monitor

This shows the cameras which are dropped from the 'Device Manger', 'Status Monitor' or 'Group Monitor'. The up to 64 channels are shown in one 'Live Monitor' window. And maximum 4 'Live Monitor' windows can be open in the CMS. But only one 'Live Monitor' can be located in the main window.

Single/4/8/9/16/21/36/56/64 split view is available on each 'Live Monitor' window.

By drag & drop of a channel, you can change the location of the channel in every 'Live Monitor' window. And there are some functions to control the DVR and some miscellaneous function on the right-click menu.

To freeze up the live screen

To detach the 'Live Monitor' window from the main window

To get the 'Live Monitor' window be back into the main window.

[View Grouping by DVR]

When you do the 'double-click' on a channel, a new live view window pops up. This new window has and groups the cameras connected to the same particular DVR in one window. By the double click again on this window, single channel window pops up again.

You can get at most 4 sub pop-ups from one 'Live Monitor' window.

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5.3 Group Monitor

[Add Group Manually]

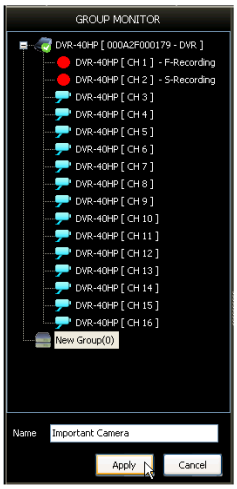
You can create a new group by clicking on the ' Add Group' icon.

Once the new group is created, it will be listed under the 'Group Monitor' window.

[Edit Group]

If you want to modify the name of group, click the 'Edit Group' icon and name it.

By clicking 'APPLY', the entered name is applied and saved.


GROUP MONITOR
DVR-40HP [000A2F000179 - DVR]
DVR-40HP [CH 1] - F-Recording
DVR-40HP [CH 2] - S-Recording
DVR-40HP [CH 3]
DVR-40HP [CH 4]
DVR-40HP [CH 5]
DVR-40HP [CH 6]
DVR-40HP [CH 7]
DVR-40HP [CH 8]
DVR-40HP [CH 9]
DVR-40HP [CH 10]
DVR-40HP [CH 11]
DVR-40HP [CH 12]
DVR-40HP [CH 13]
DVR-40HP [CH 14]
DVR-40HP [CH 15]
DVR-40HP [CH 16]
New Group(0)
Name
Important Camera
Apply
Cancel

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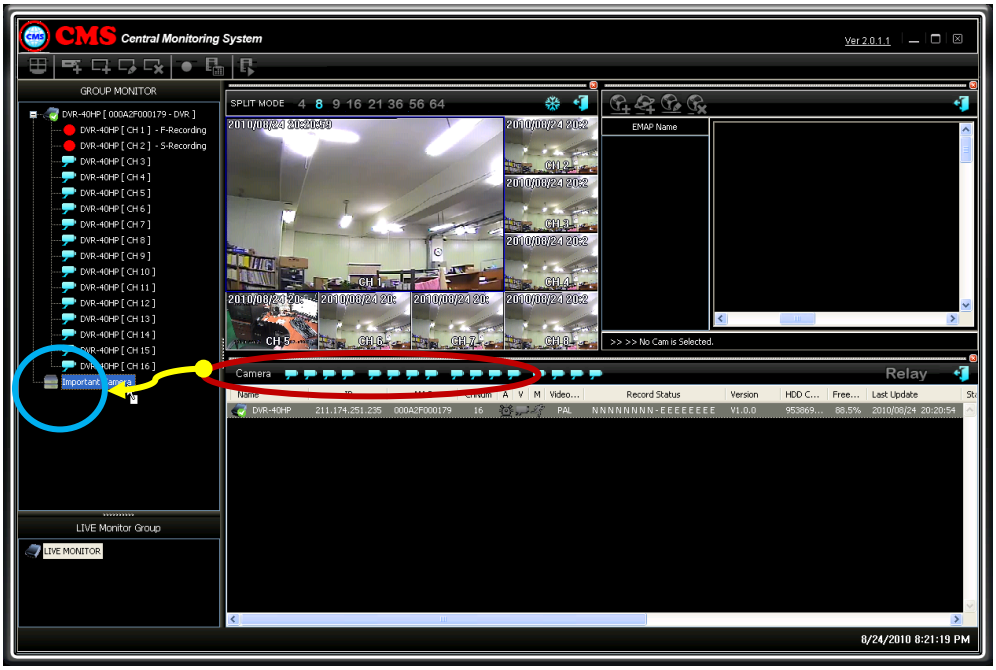
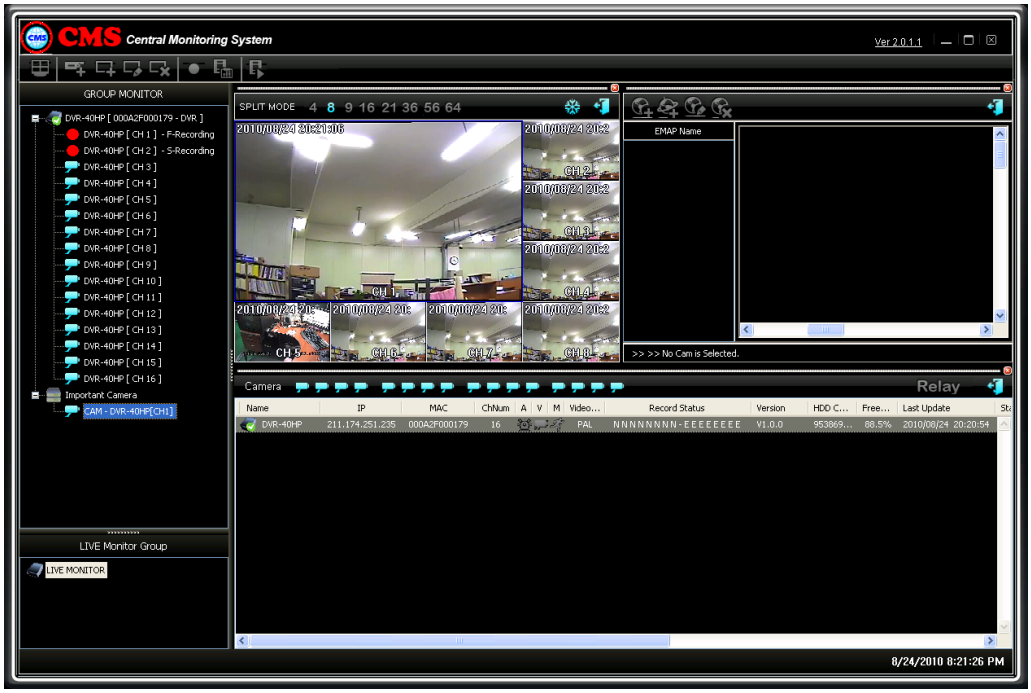
[Add Cameras to the Group]

Select the particular camera on the 'DVR Status Monitor' window and drag & drop it to the group

User can add the cameras to a group by just drag & dropping the Camera icon.



By double clicking on the camera icon under the 'Group Monitor', you can have a preview of the live screen.



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[Add DVR Group]

By drag & drop the selected DVR from the 'Device Manger' or 'DVR Status Monitor', you can add the management group by the DVR. The name of the DVR group can be renamed also by 'Edit Group'. The modified name of DVR group affects the name of DVR in the 'Device Manger'.

NOTE: the multiple drag & drop from the 'Device Manger' is not allowed.

[Delete Group]

Select the group in the 'Group Monitor' and click this icon.

[Group View]

Select the particular group from the 'Group Monitor' list and click the 'Live Monitor' icon to make all the cameras shown on the 'Live Monitor' window. Or by double click on the DVR in the 'Group Monitor' list, you can get the same effect.

5.4 LIVE Monitor Group

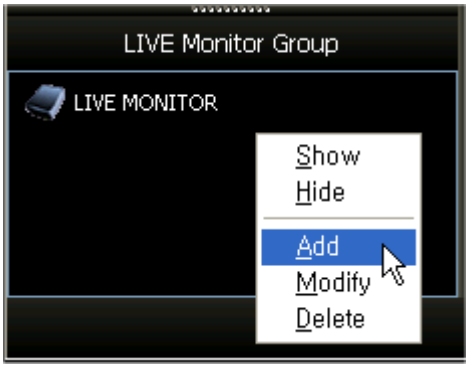
This window is used to list and manage multiple 'Live Monitor' windows.

- **Add**

  You can add a new 'Live Monitor' window by clicking on the ADD icon.

When created, you can modify the name of new 'Live Monitor' window.

Clicking the group in the 'LIVE Monitor Group' makes the corresponding 'Live Monitor' window located on the foreground.



- **Show**

  Make the selected 'Live Monitor' window shown. When minimized, hidden by other window or hidden by 'Hide' function of CMS, the selected window will be located on the screen by this.

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- **Hide**

  Make the selected 'Live Monitor' window hidden on the back ground. Using the 'Show' menu, it can be recovered.

- **Modify**

  Change the name of the 'LIVE Monitor'.

- **Delete**

  Close and delete the selected 'LIVE Monitor'.

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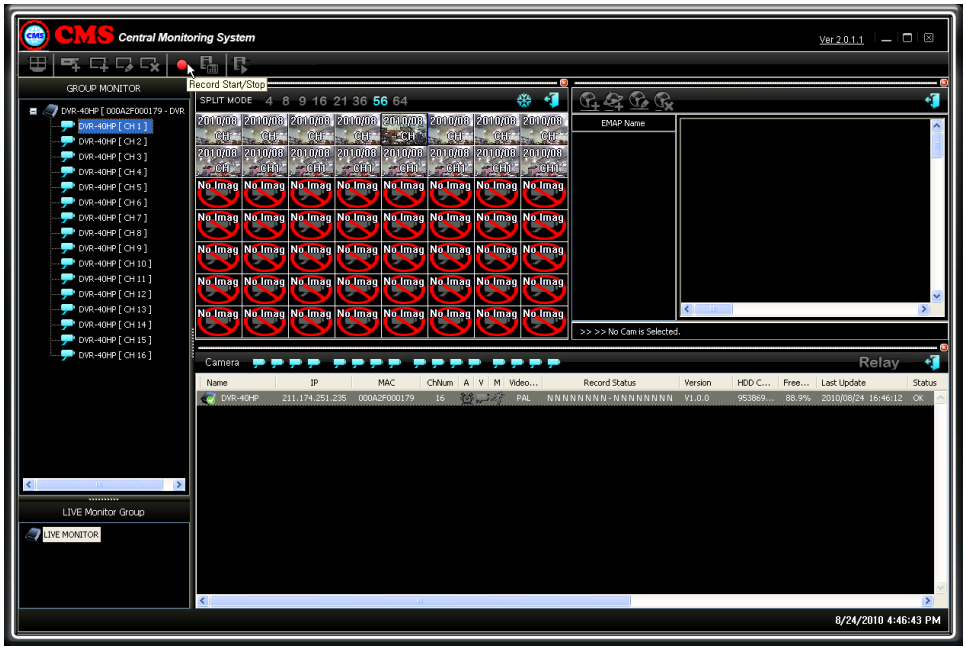
6. Record & Playback

6.1 Manual Record

The CMS supports the recording of the live A/V stream from the DVR. You can start or stop the 'Manual Record' for **the selected one channel** of a particular DVR by clicking on the REC Icon.



NOTE:

Before staring the record, one desired camera has to be selected from the 'Group Monitor' window

Only one camera should be chosen by each record. The multiple selections or the selection in terms of the DVR is not allowed.

The location of the recording folder

- In XP

  C:\Program Files\DVR\CMS\CMSData\ [User_Account_Of_CMS] \[MAC_Address_Of_DVR]\ ERecord or SRecord

- In Vista or Windows7

  C:\Users\[User_Account_Of_PC]\AppData\Local\VirtualStore\CMS

  \CMSData\[User_Account_Of_CMS] \[MAC_Address_Of_DVR]

  \ERecord or SRecord

The folder 'SRecord' is for the 'Manual Record' and 'Schedule Recond'.

The folder 'ERecord' is for the 'Event Record'.

The recording has the '.dvr' format which is the recording file format of Artnix.

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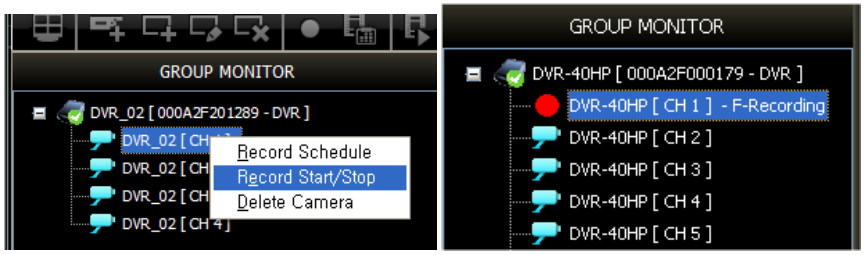
User can start or stop the 'Manual Record' in 2 methods as

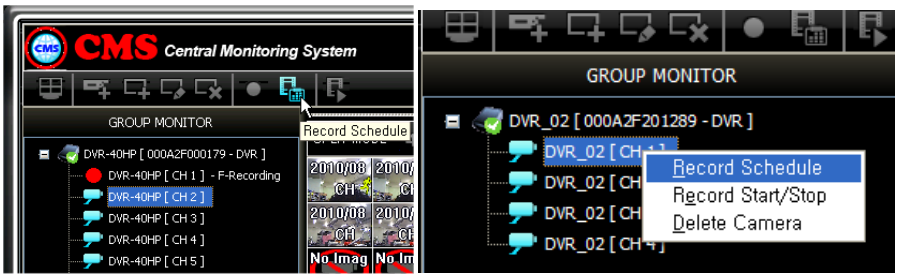
- By clicking the REC icon.
- By right click of the mouse (as shown in the below screen).


GROUP MONITOR
DVR_02 [000A2F201289 - DVR]
Record Schedule
Record Start/Stop
Delete Camera
GROUP MONITOR
DVR-40HP [000A2F000179 - DVR]
DVR-40HP [CH 1] - F-Recording
DVR-40HP [CH 2]
DVR-40HP [CH 3]
DVR-40HP [CH 4]
DVR-40HP [CH 5]

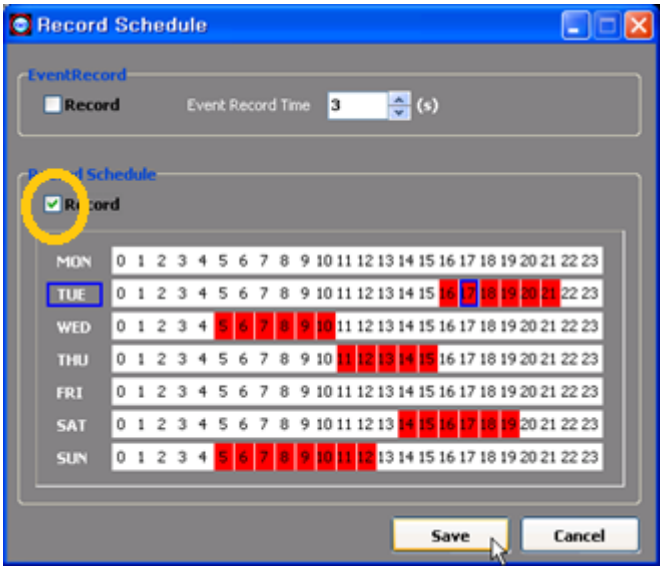
6.2 Schedule Record & Event Record

[Schedule Record]

Select the desired Camera & click the right button of the mouse to get into the 'Schedule Record'.



Click on the 'Record Schedule' to open the 'Record Schedule' window as below



Initially, you have to enable the 'Record' check box for the 'Schedule Record' by clicking on it in the panel of the 'Record Schedule'. And you can make a schedule for the recording of

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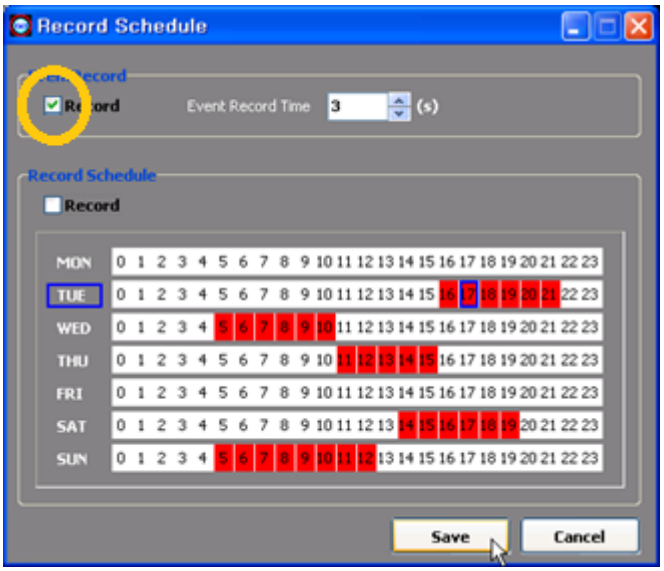
a week by dragging with the left button of the mouse pressed.

By dragging with the right button, you can clear the selected field.

The highlighted red box indicates that the user has enabled the 'Schedule Record' on that time. Whereas the blue outlined cell indicates the current day & time of the PC.

[Event Record]

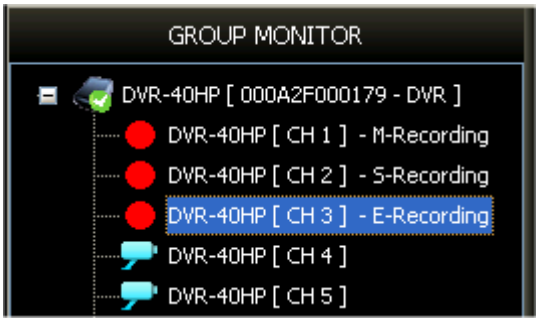


Initially, you have to enable the 'Record' check box for the 'Event Record' by clicking on it in the panel of the 'Record Schedule'

Highlight the camera for the 'Event Record' by clicking on it.

You can set the 'Event Record Time' for defining recording length from 3 Sec~ 120 Seconds.

M-Recording stands for the 'Manual Record', S-Recording stands for the 'Schedule Record' and E-Recording stands for the 'Event Record'. (Refer to the below picture)


GROUP MONITOR
DVR-40HP [000A2F000179 - DVR]
DVR-40HP [CH 1] - M-Recording
DVR-40HP [CH 2] - S-Recording
DVR-40HP [CH 3] - E-Recording
DVR-40HP [CH 4]
DVR-40HP [CH 5]

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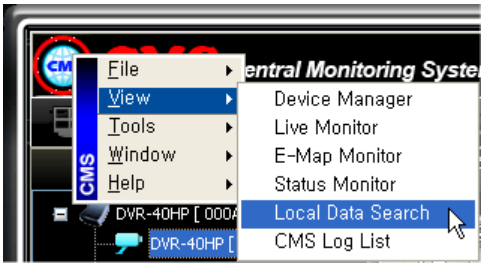
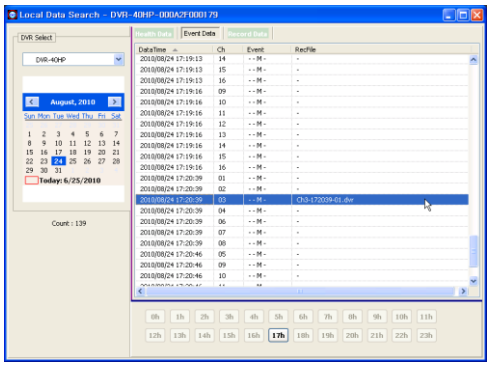
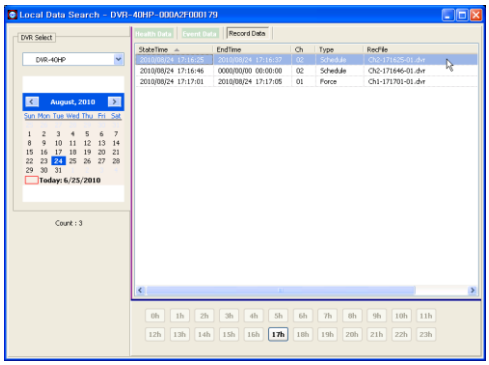
[Search and Playback Local Recorded File]

You can click on the 'Local Data Search' as shown in the below picture.

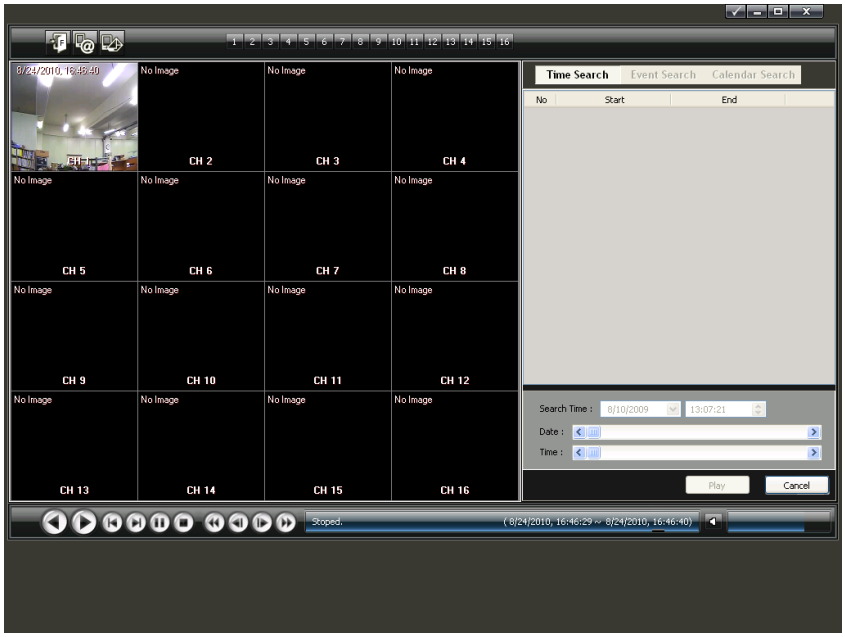


After choosing the DVR first from the combo box, you can search a particular data file under the Event or Record tap. In order to start the playback, select the date from the calendar and the hour using the bottom buttons and click the desired file.





The playback will be done by the '[File Player](#)' shown in the below picture.



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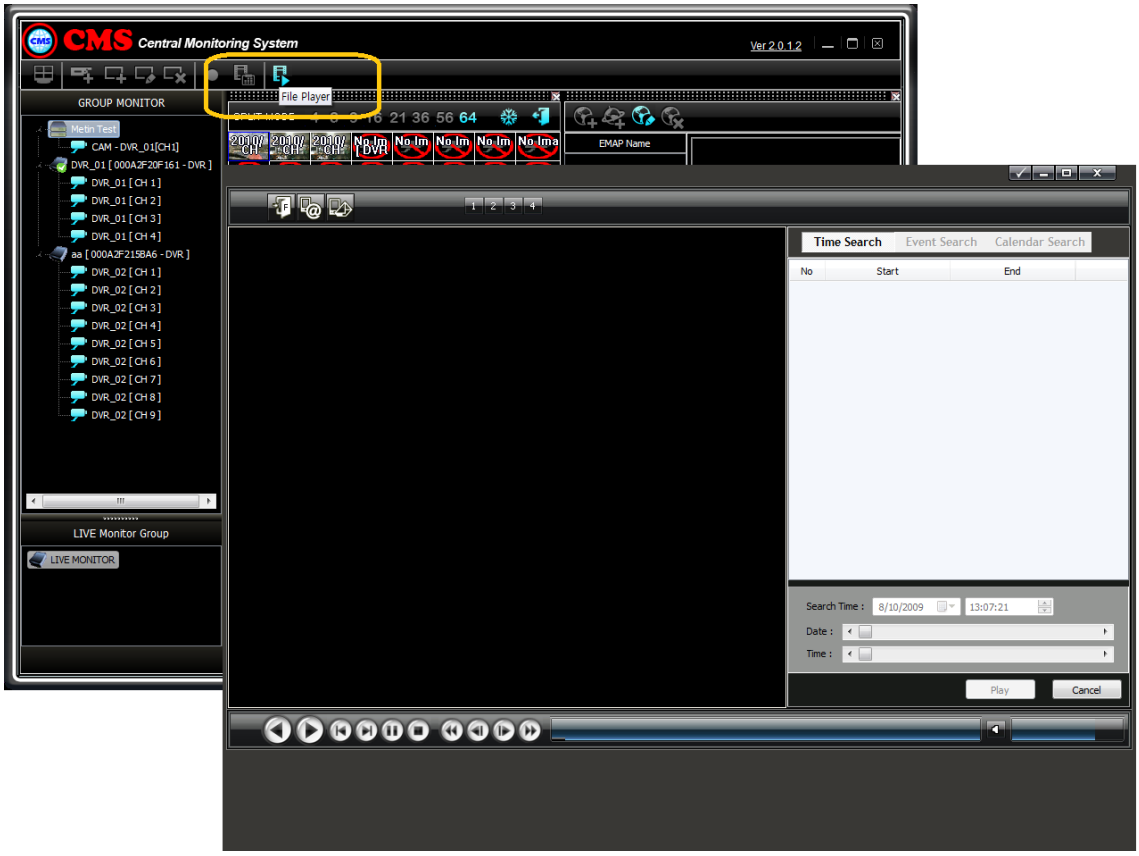
6.3 File Player

The 'File Player' is the player that plays the locally recorded file and does local playback from the recorded file in the DVR through the network. By clicking the 'File Player' icon like below picture, you can execute the 'File Player'.



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[Open Recorded File]

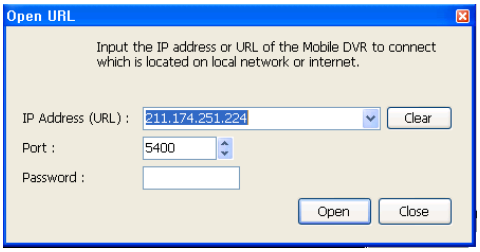
After clicking the 'Open Dvr File' icon and locating the desired file, you can playback the recorded file which is already saved in the PC.

For the default file location where the recorded A/V stream is saved, please refer to the 'Manual Record' section.

Only the '.dvr' file can be played in the 'File Player'.

[Open Network Playback]

By clicking this icon, you can connect the DVR with the IP Address or domain name of the DVR as shown below.



- **IP Address(URL):**

  Input the IP address or the domain name of the DVR

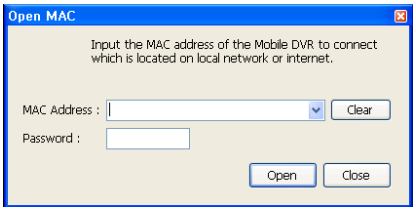
- **Port**

  Specifies the port number of the connected DVR

- **Password**

  Enter the Password of the DVR.

By clicking this icon, you can connect the DVR with the MAC address as shown below.


Open MAC
Input the MAC address of the Mobile DVR to connect which is located on local network or internet.
MAC Address :
Clear
Password :
Open
Close

- **Password**

  Enter the Password

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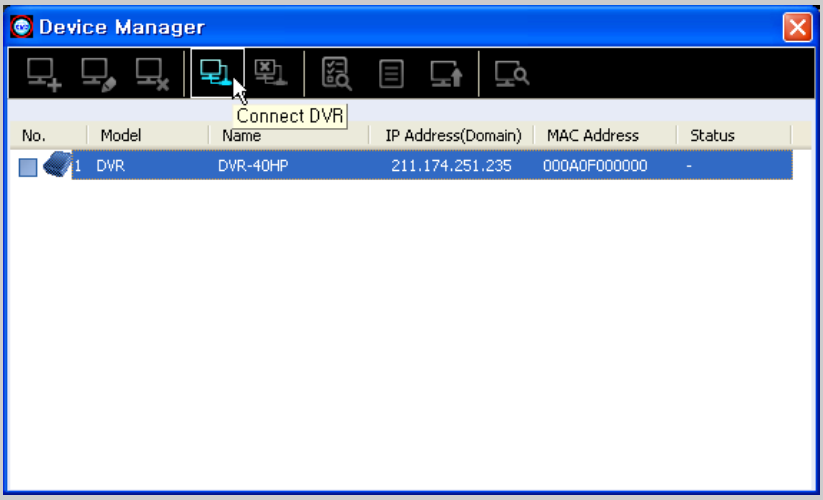
■ **MAC Address**

Enter the MAC Address of the DVR

NOTE: You can know the MAC Address of the DVR from the 'Device Manager' and the 'Status/Network' page of the DVR.

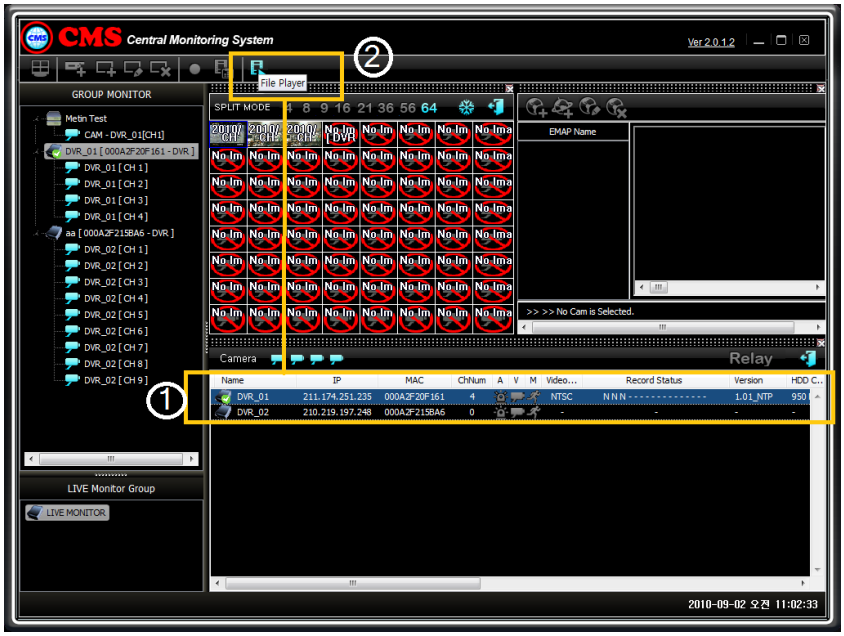


[Open Network Playback from the List]

The execution of the 'File Player' with the DVR selected in the 'DVR Status Monitor' panel connects the selected DVR automatically and starts the playback after the connection.

① Choose the DVR from the 'DVR Status Monitor' and

② Click the 'File Player' icon to call the 'File Player'.



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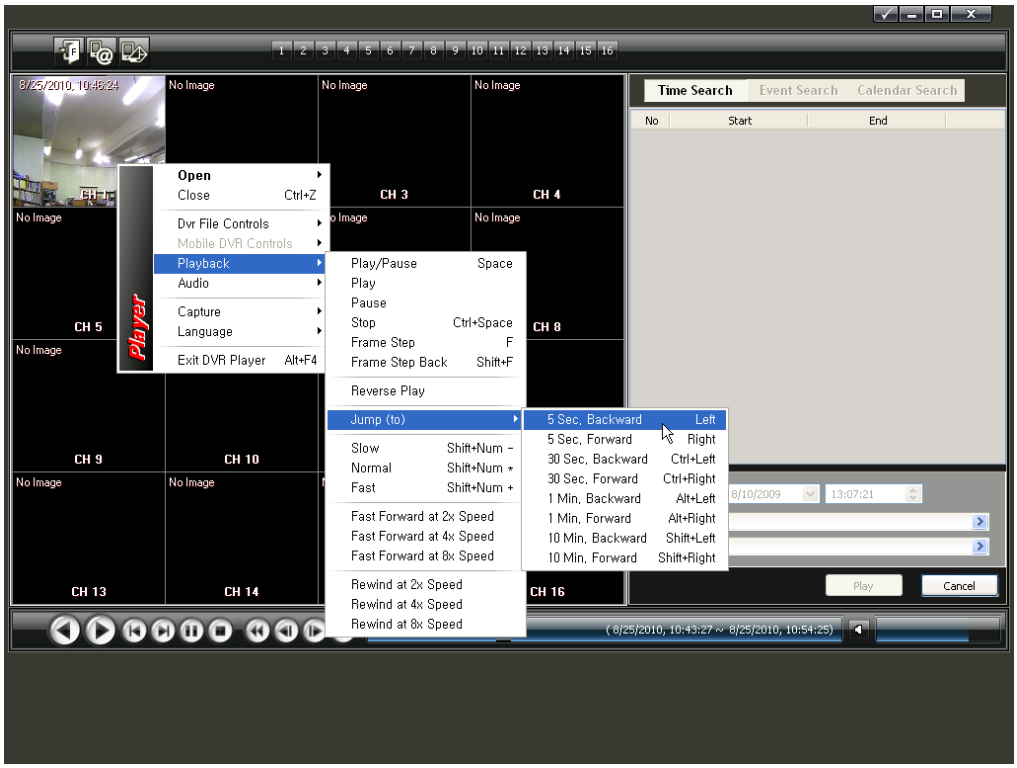
[Playback]

The 'File Player' can play the recorded file in the PC and the recorded data in the DVR which are opened in the way explained above.

There are various playback controls in the pop up menu. Please refer to the below picture and the table.



Playback Functions		
Function	Short-Cut Keys	Description
Play	Space	Plays the File.
Pause	Space	Freeze's the video
Stop	Ctrl+Space	Stops from playing the file.
Frame Step	F	Jumps to next Frame
Frame Step Back	Shift+F	Goes back to the previous Frame

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Reverse Play	Not defined	Plays the video in a reverse manner.
Jump to 5 Sec. Backward	Left	Juggles 5 seconds in a backward direction.
Jump to 5 Sec. Forward	Right	Juggles 5 seconds ahead forward direction.
Jump to 30 Sec. Backward	Ctrl+Left	Juggles 30 Seconds behind.
Jump to 30 Sec. Forward	Ctrl+Right	Moves ahead of 30 Seconds
Jump to 1 Min. Backward	Alt+Left	Juggles 1 Minute behind.
Jump to 1 Min. Forward	Alt+Right	Moves 1 Minute ahead
Jump to 10 Min. Backward	Shift+Left	Juggles 10 Minute behind.
Jump to 10 Min. Forward	Shift+Right	Moves 10 Minutes ahead.
Slow	Shift+Num -	Playback Speed is slow by clicking it.
Normal	Shift+Num *	Playback Speed is Normal by clicking it.
Fast	Shift+Num +	Playback Speed is Fast by clicking it.
Fast Forward at 2x Speed	Not defined	Toggles the Speed at an average ahead of 2X.
Fast Forward at 4x Speed	Not defined	Toggles the Speed at an average ahead of 4X.
Fast Forward at 8x Speed	Not defined	Toggles the Speed at an average ahead of 8X.
Rewind at 2x Speed	Not defined	Playback Speed will be behind at an average of 2X.
Rewind at 4x Speed	Not defined	Playback Speed will be behind at an average of 4X.
Rewind at 8x Speed	Not defined	Playback Speed will be behind at an average of 8X.

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■ **Select Channel**

You can select the Single Channel Display by clicking the channel number on the tool bar.

■ **Playback Control Bar**

Normal speed (1X) playback in reverse direction

Normal speed (1X) playback in forward direction

Press this button to go to the 5th frame in backward direction during the playback

Press this button to go to the 5th frame in forward direction during the playback

Pause the playback

Stop the playback

Toggles the reverse playback speed in the range of 2x, 4x, 8x, 16x, 32x, 64x & 128x

Toggles the slow reverse playback speed in the range of 2x, 4x, 8x, 16x & 32x

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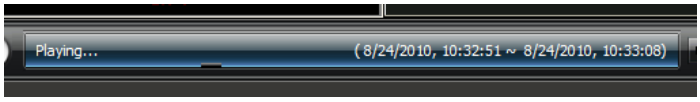
Toggles the slow forward playback speed in the range of 2x, 4x, 8x & 16x

Toggles the fast forward playback speed in the range of 2x, 4x, 8x, 16x, 32x, 64x & 128x.

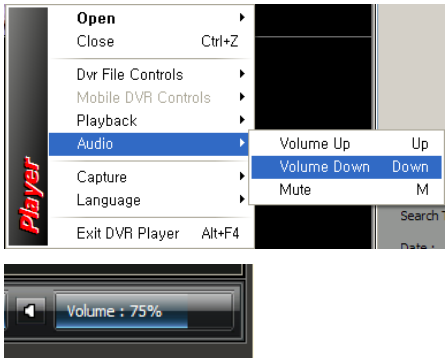
- **Play Slider Bar**



The 'Slide Bar' shows a view of the start time & end time of the recorded file.

- **Play Audio Volume Control Bar**

Using the menu shown in the below menu or the volume control bar, you can adjust the volume or mute the audio.



- **Hide/Show Search Panel**

Hide and show the search panel on the 'File Player'

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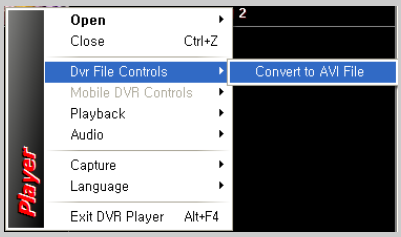
[Convert to AVI File Format]

There is the facility to convert the recorded file(.dvr) to '.avi' file format. The 'AVI Converting' is available only for the playback of the recorded files in the PC, not supported for the network playback.

How to:

- ✓ Select the recorded file from *the 'Event or Schedule Record' folder* or others.
- ✓ Highlight the file & double click on it. A highlighted file will be played using the 'File Player'.
- ✓ In order to convert it to 'AVI' format file, do the right-click on the mouse during the playback.
- ✓ In the popup menu, the 'DVR File Controls/Convert to AVI File' starts converting after the folder selection.



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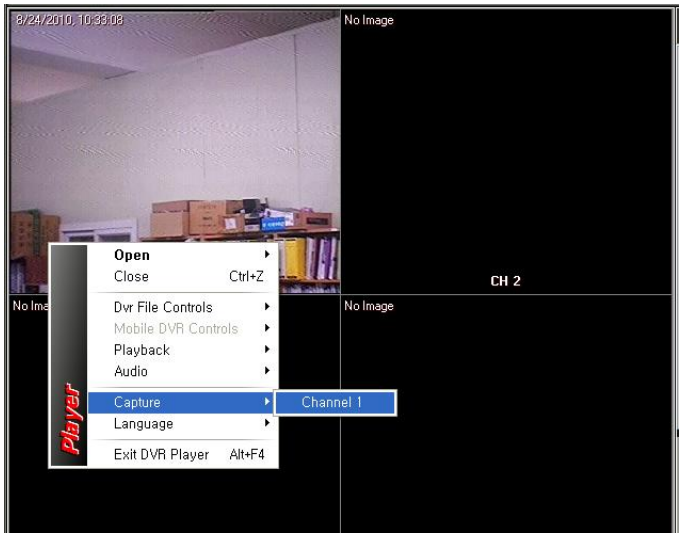
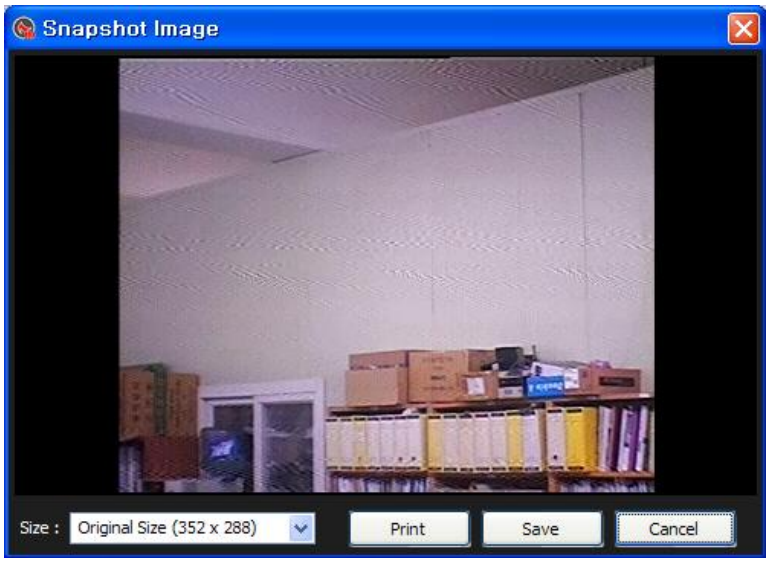
[Snapshot]

You can take a snapshot for each channel of the DVR by pressing the right button of the Mouse as shown below.



- **Click on Capture/Channel #channel**

  Take a picture of Channel #channel. The 'Snapshot Image' window will be open.



The captured image can be saved as 'BMP' or 'JPEG' format and be printed out by the 'Print' button.

If the video has the half D1 resolution, 704x240/704x288, using the combo box shown in above picture you can choose the 'Extended Size' to make it have normal aspect ratio.

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7. Network Playback & Remote Copy

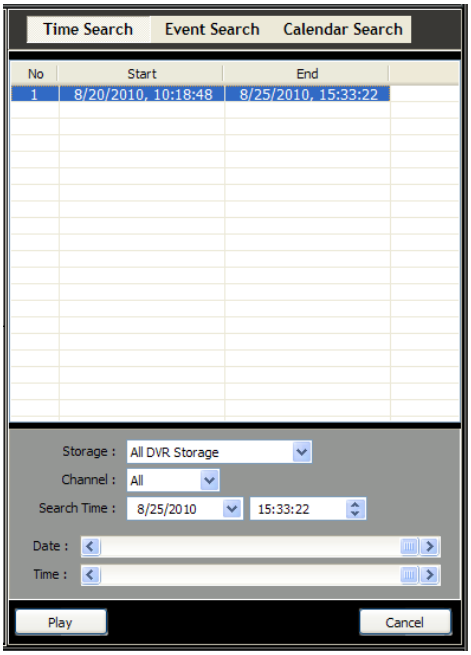
7.1 Network Playback

This function enables to playback the recorded files with the help of the 'File Player' via the network remotely.

Initially, the DVR under the 'DVR Status Monitor' has to be selected and highlighted. By clicking the 'File Player', it connects the DVR directly with the 'File Player' when opened. Refer to the 'Open Network Playback from the List' section.

7.2 Time Search

Time search provides an overview of the recorded data from the earliest available recording to the latest available recording.



- **Start**

  The starting time of the recorded data in the DVR

- **End**

  The ending time of the recorded data in the DVR

- **Storage**

  You can specify the particular HDD of the DVR.

- **Channel**

  You can select the desired channel.

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- **Search Time**

You can select the date and the time for searching and playback. Playback starts from the 'Search Time' to the 'End Time' shown in the list.

- **Date**

By moving the bar, you can choose the date in the range of the 'Start' time and 'End' time. The date is shown the 'Search Time' combo box.

- **Time**

By moving the bar, you can choose the time in the range of the 'Start' time and 'End' time. The time is shown the 'Search Time' combo box.

- **Play**

Initiate searching. And Start to playback with the search result.

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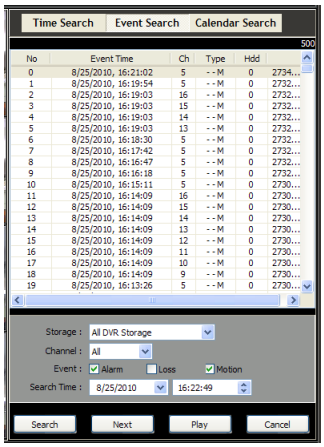
7.3 Event Search

Event search provides an overview of the all event-related recordings so that a specific event can be quickly pinpointed and accessed to the DVR. The events on the DVR are registered into the 'Event List' of the DVR, which is used for this 'Event Search'.



- **Event Time**

  The time when an event occurred

- **Ch**

  The channel number where the event occurred

- **Type**

  The type of the detected event in the DVR,

  (A ➔ ALARM, L➔Video Loss, M ➔ Motion Detection)

- **HDD**

  The number of HDD which has the actual recorded data linked from the event list

- **Event**

  Check box of the each event type. The checked event type is used on searching and the others are filtered out.

- **Search Time**

  You can select the date and the time for searching and playback. Playback starts from the 'Search Time' to the 'End Time' shown in the list.

- **Search**

  Retrieving the event list from the DVR from the time specified at the 'Search Time'. The maximal number of Event messages which can be shown in a list is 500.

- **Next**

  Switch to the next 'Event List' page

- **Play**

  The playback of the specified event starts by clicking this button after selecting the desired event from the list resulted from searching.

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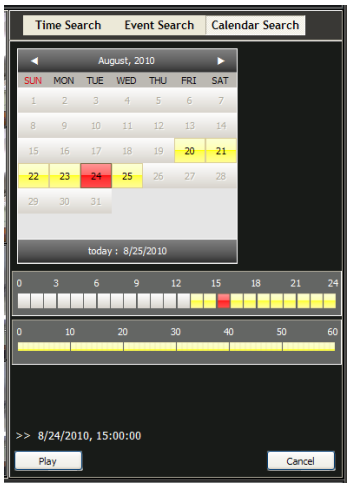
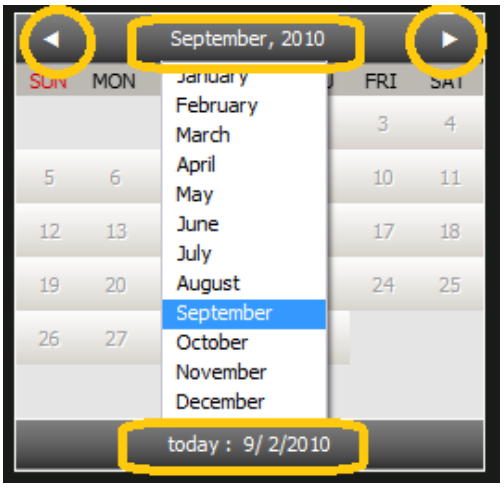
7.4 Calendar Search

Calendar search provides a quick overview of the year, month, day and hours of the day so that the data can be accessed relatively quickly.





You can select the month & year by clicking on the left arrow or the right arrow. Similarly, you can select the desired date by clicking it on the calendar. The yellow box indicates that the block contains the recorded data and will be changed to the red color when it's selected.

After choosing the date on the calendar, the yellow boxes is going to be shown on the hour bar and minute bar. Now select the hour and minute to be played and then click play button.

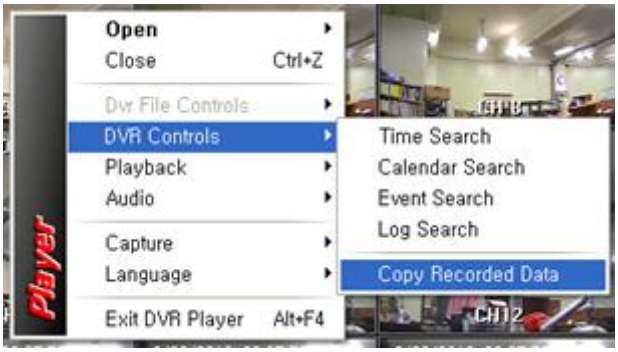
Click on the 'today' switches the calendar to the month of today.

By clicking on the top of the calendar showing the selected month and year, the list of the months pops up.

7.5 Copy

Here you can copy the recorded files from DVR (Internal HDD) to DVR (USB FRONT 1/2 or CD/DVD) as well from DVR to the PC using a 'File Player'.

Click on the 'DVR Control/Copy Recorded Data' initiates copying the recorded files from the DVR to the destination device out of the various media.



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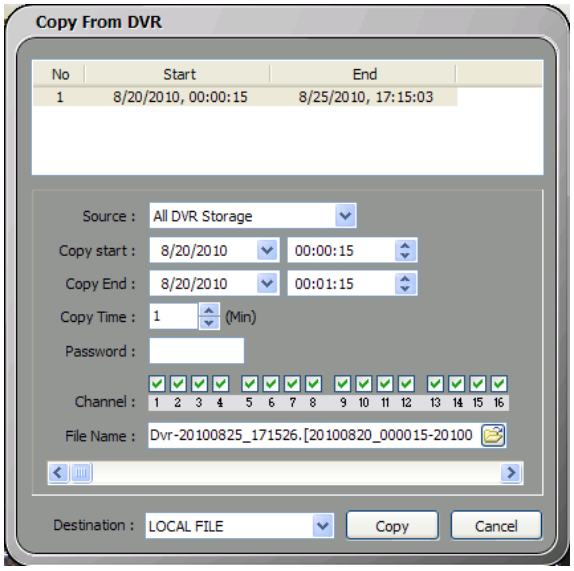
Please refer to the below picture for the detail operation. For the copy initiation of the DVR through the network, you must specify the copy destination among the 'USB FRONT1', 'USB FRONT2', 'INTERNAL CD/DVD' and 'FTP SERVER'.



- **Start**

  The starting time of the recorded data in the DVR

- **End**

  The ending time of the recorded data in the DVR

- **Storage**

  You can specify the particular HDD of the DVR.

- **Copy Start**

  The start time for the copy when has to be in the range of the 'Start' and the 'End'

- **Copy End**

  The end time for the copy when has to be in the range of the 'Start' and the 'End'

- **Copy Time**

  The length of the time to be copied which is the interval between the 'Copy Start' and the 'Copy End'.

- **Password**

  Password for the encryption of the copy file

- **Channel**

  You can select the desired Channel during copying process.

- **File Name**

  Displays the default file name for the copy operation and the file name can be changed arbitrary

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- **Destination**
  - **LOCAL FILE**: Copy from the DVR to the PC via the network
  - **USB FRONT 1**: Copy to the media connected on the front USB port 1
  - **USB FRONT 2**: Copy to the media connected on the front USB port 1
  - **INTERNAL CD/DVD:** Copy to the CD/DVD internally installed in the DVR.
  - **FTP SERVER**: Copy to the FTP server specified in the menu of the DVR.
- **Copy**

  Execute the copy operation

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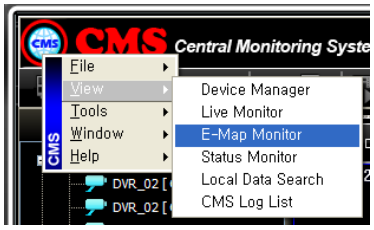
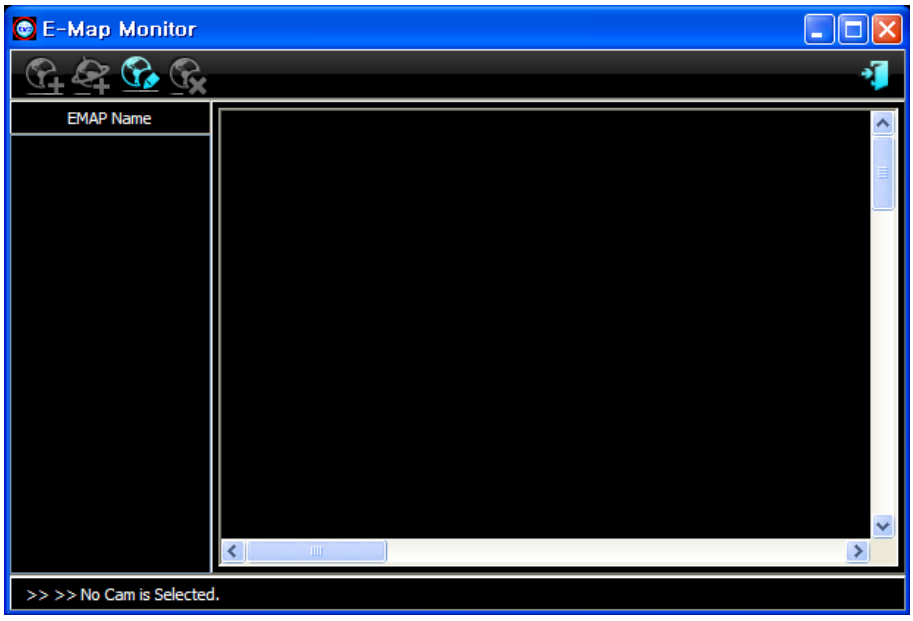
8. E-Map Monitor

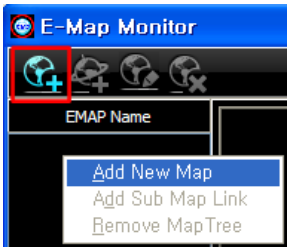
E-map is a graphical overview to indicate the locations of the cameras. This feature is particularly useful during the installation of a new security system as site locations where camera installation seems most appropriate can be easily identified. E-Map also provides a visual grasp of the vicinity to users who are unfamiliar or new to the area under surveillance. By viewing an E-map, security personnel can identify the surroundings and rush to a location immediately and secure an area



Click on "View" and then click on the 'E-Map Monitor'



8.1 Add New Map



To create new main map, click the "New Map" icon to load a map into the E-Map Monitor. Or click the right button of the mouse on the E-Map list panel and click the 'Add New Map'

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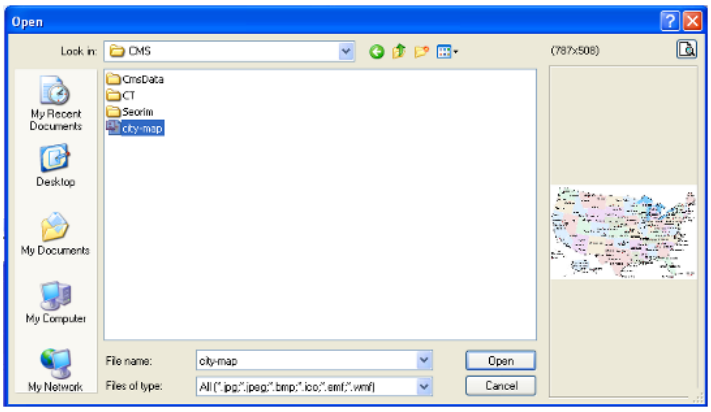
menu.



Select a map you want to load and click the "Open" button.

You can see the map loaded into the E-map window.

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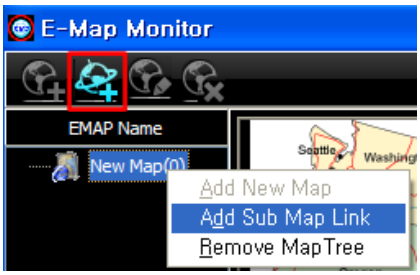
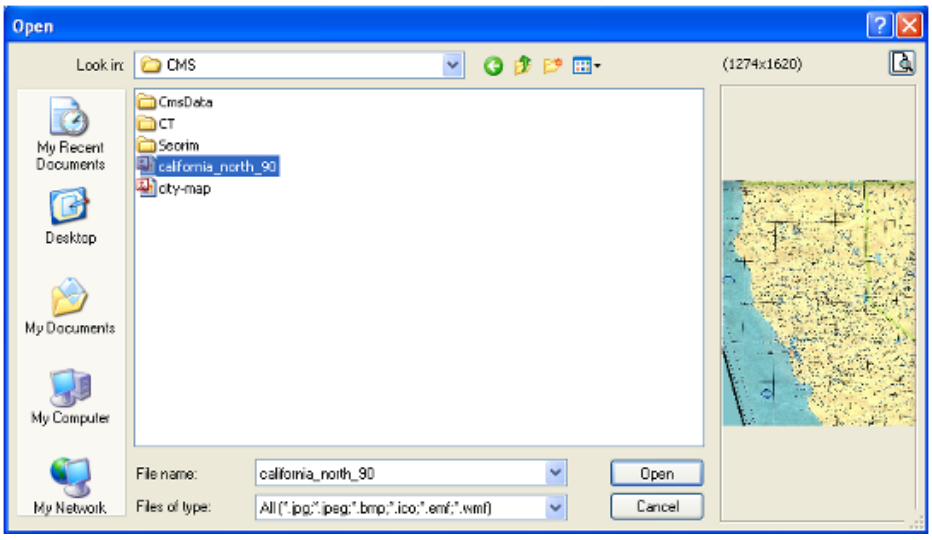
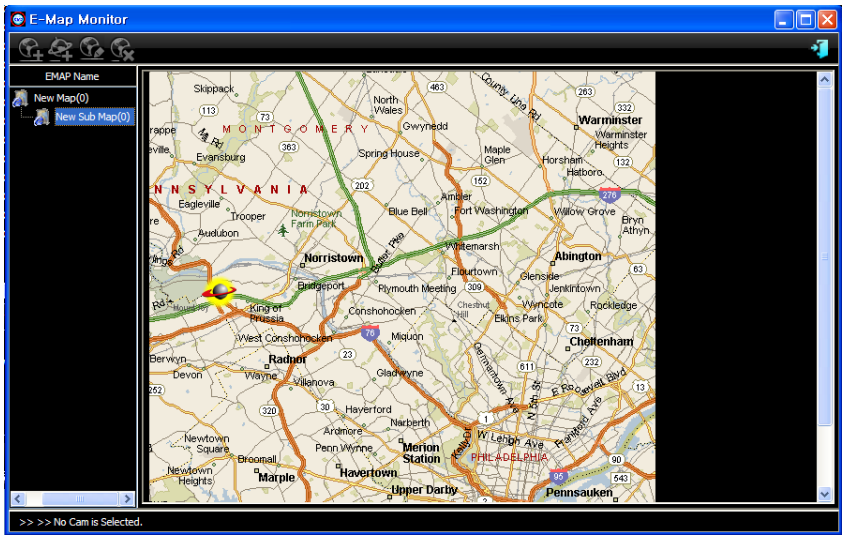
8.2 Add Sub Map Link



If you want to add a sub-map, click the "Add Sub Map Link" icon or click the right button of the mouse on a desired list of E-map list and click on "Add Sub Map Link".



Select a map you want to load and click the "Open" button.



You can see the map loaded into the E-map Monitor by sub-map.

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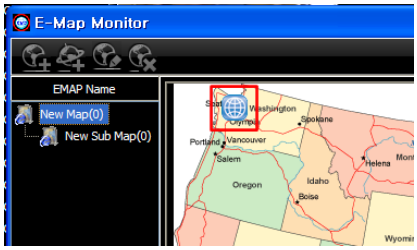

And a blue map link icon will be created on the left above of parent map.

The sub-map is linked to the parent map and if you double-click the link icon in the parent map, you can open the linked sub-map directly.

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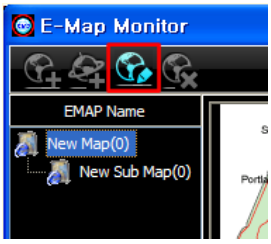
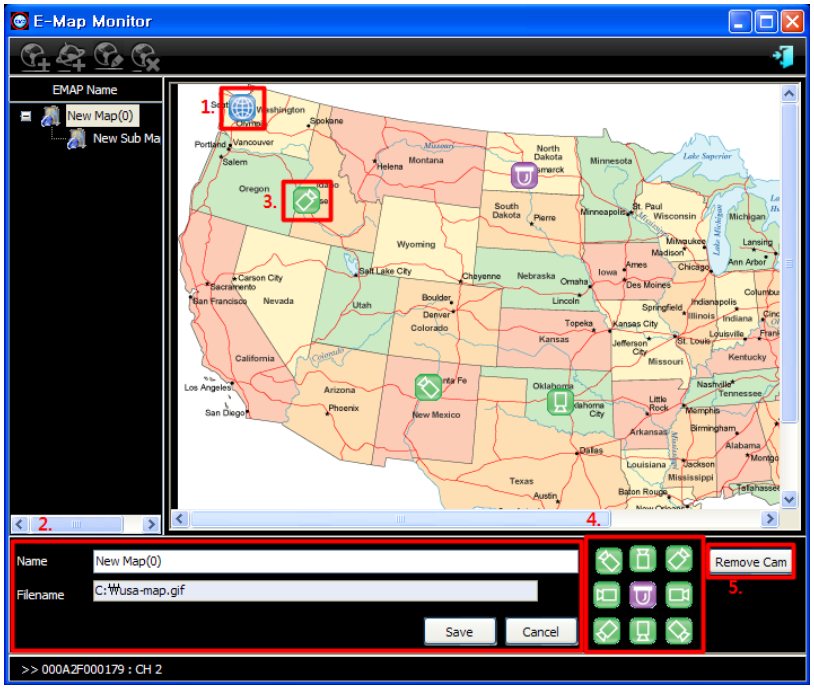
8.3 Edit Map

E-map editor provides the functions that enable to set up the locations of cameras in the E-map to help the administrator to have the connection between camera and map. The map supports hierarchy structure and can let administrator easy to manage the remote cameras and DVRs. You can move the location of camera icon or map link icon or change the map name.

NOTE: Only the administrator is authorized to create and edit the e-map and users can only monitor.



Select an editing map in e-map list and click the "Edit Map" icon.



- **1 => Map Link icon**

  Move the map link icon to a desired position.

- **2 => Name and Filename**

  You can change the map's name and click the "Save" button.

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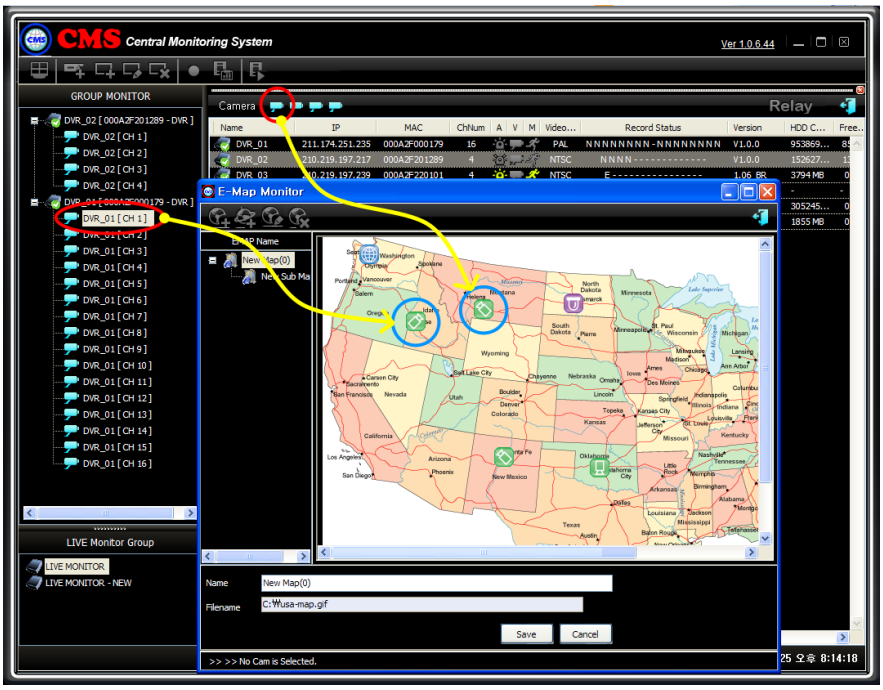
- **3 => Camera icon**

  Drag and drop a desired camera from Group list or Status Monitor window's camera icon into E-map editing window. Then a camera icon will be created. (See the image below)



NOTE: The maximum 20 cameras can be located on one map.

- **4 => Display a camera direction**

  Select a desired camera icon in a map and click a desired camera direction icon.

- **5 => Remove a camera**

  Select a desired camera icon in a map and click the "Remove Cam" button. Then the camera icon will be removed.

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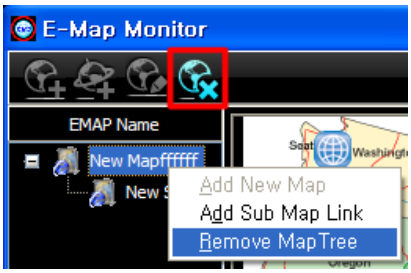
8.4 Remove Map Tree



Click the "Remove Map Tree" icon to delete the selected map and sub-maps.

If you want to delete the map tree, click the "Yes" button.

8.5 Preview

If you double-click the camera icon in the map, the preview window will be displayed in the map. Double-click again to close the preview window.

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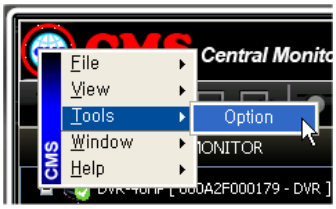
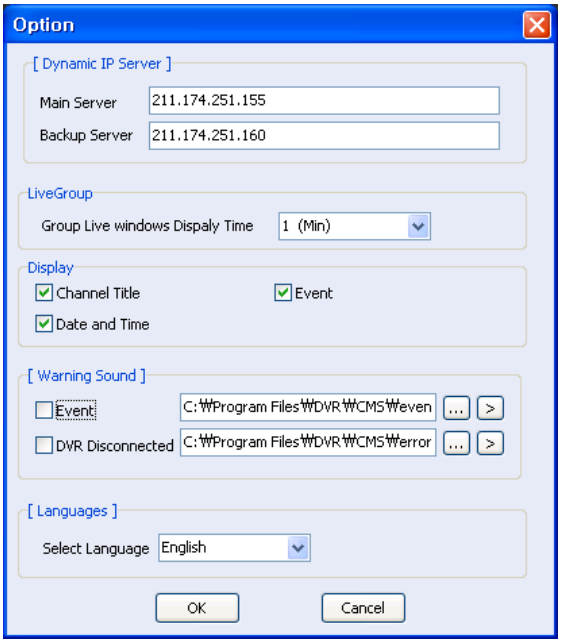
9. Option

The 'Option' window show the information as below





- **Dynamic IP Server**

  User can modify the IP address for the Dynamic IP Servers as desired.

  The default values are:

  - Main Server: 211.174.251.155
  - Backup Server: 211.174.251.160

- **Live Group**

  You can set the active time of the 'Live Monitor' window.

  The available range is from 1 minute ~ 60 minutes.

> NOTE:
>
> If you set 'Group Live Windows Display Time' to be '1 (Min)' minute, the 'Live Monitor' window will be closed in 1 minute. disappear automatically.

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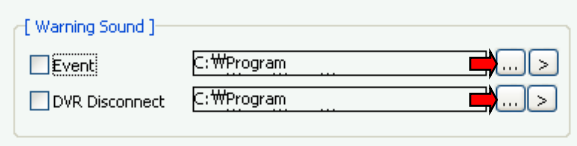
- **Display**

  You can set hide the 'Channel Title', 'Event' & 'Date and Time' by disabling the check Box & vice versa.

  Once these parameters are disabled, you can see the live screen with no these overlaid.

- **Warning Sound**

  You can create or change a warning sound when an event is transferred from the DVR or the DVR is disconnected.



  If you want to set a warning sound, check "Event", "DVR Disconnect" or both of them and choose the sound file, '.wav' wave file, by click the "…" button indicated by the red arrow on the above picture.

  Click the ">" button to hear the selected sound.

- **Language**

  You can change the operating mode of CMS to either English or other.

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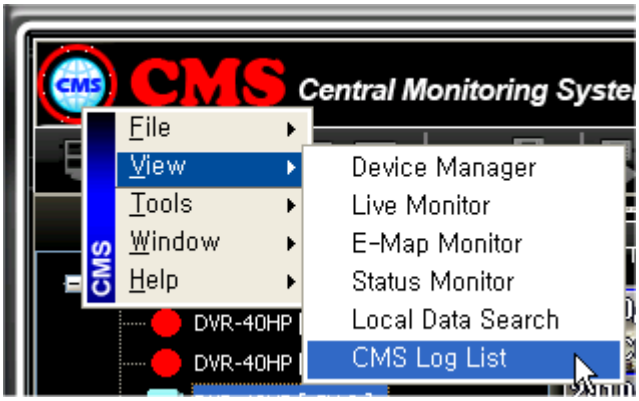
10. Information

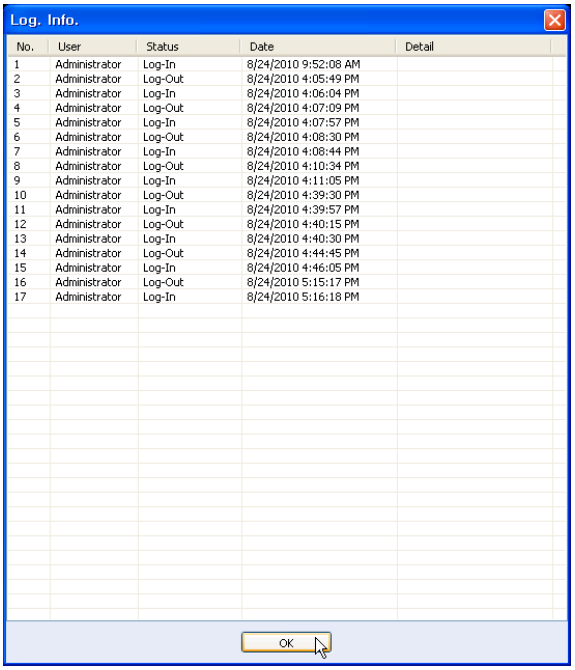
10.1 CMS Log

Log File gives complete information about the log in & log off history.



By clicking the 'CMS Log List', the 'Log Info' window appears after the password verification.

When the password prompted, enter the administrator's password to view the Log details as shown below.


Log. Info.
No. User Status Date Detail
1 Administrator Log-In 8/24/2010 9:52:08 AM
2 Administrator Log-Out 8/24/2010 4:05:49 PM
3 Administrator Log-In 8/24/2010 4:06:04 PM
4 Administrator Log-Out 8/24/2010 4:07:09 PM
5 Administrator Log-In 8/24/2010 4:07:57 PM
6 Administrator Log-Out 8/24/2010 4:08:30 PM
7 Administrator Log-In 8/24/2010 4:08:44 PM
8 Administrator Log-Out 8/24/2010 4:10:34 PM
9 Administrator Log-In 8/24/2010 4:11:05 PM
10 Administrator Log-Out 8/24/2010 4:39:30 PM
11 Administrator Log-In 8/24/2010 4:39:57 PM
12 Administrator Log-Out 8/24/2010 4:40:15 PM
13 Administrator Log-In 8/24/2010 4:40:30 PM
14 Administrator Log-Out 8/24/2010 4:44:45 PM
15 Administrator Log-In 8/24/2010 4:46:05 PM
16 Administrator Log-Out 8/24/2010 5:15:17 PM
17 Administrator Log-In 8/24/2010 5:16:18 PM
OK

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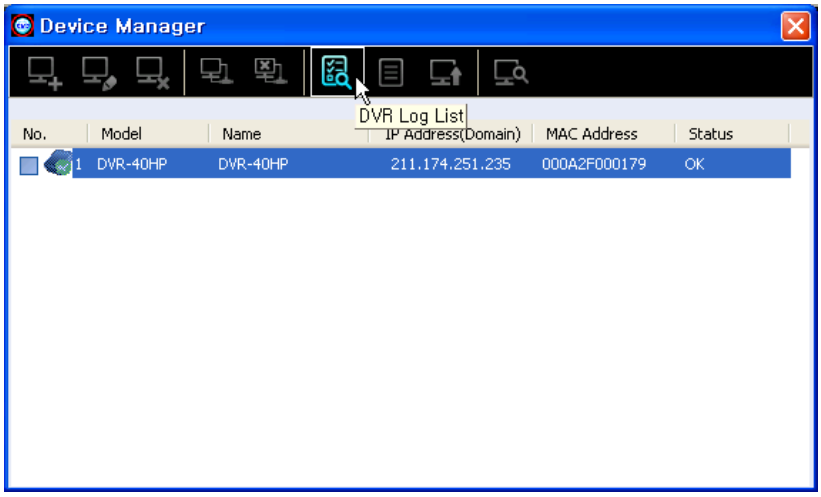
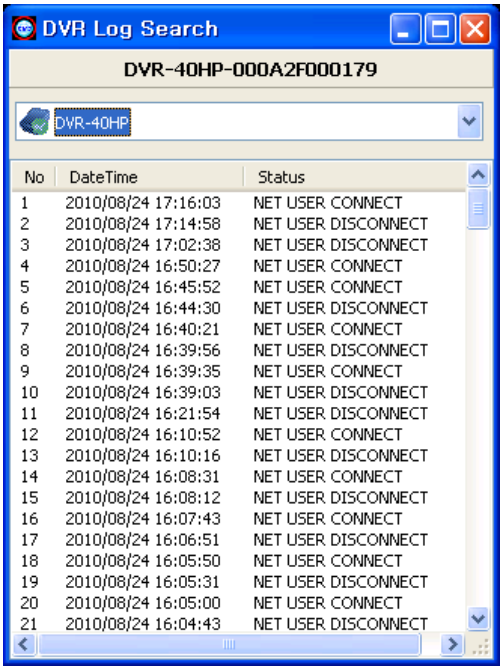
10.2 DVR Log

If you want to view the log of a particular DVR, click on the 'DVR Log List' icon under the 'Device Manager' window.



Below are the log details of a particular selected DVR .


DVR Log Search
DVR-40HP-000A2F000179
DVR-40HP
No
DateTime
Status
1 2010/08/24 17:16:03 NET USER CONNECT
2 2010/08/24 17:14:58 NET USER DISCONNECT
3 2010/08/24 17:02:38 NET USER DISCONNECT
4 2010/08/24 16:50:27 NET USER CONNECT
5 2010/08/24 16:45:52 NET USER CONNECT
6 2010/08/24 16:44:30 NET USER DISCONNECT
7 2010/08/24 16:40:21 NET USER CONNECT
8 2010/08/24 16:39:56 NET USER DISCONNECT
9 2010/08/24 16:39:35 NET USER CONNECT
10 2010/08/24 16:39:03 NET USER DISCONNECT
11 2010/08/24 16:21:54 NET USER DISCONNECT
12 2010/08/24 16:10:52 NET USER CONNECT
13 2010/08/24 16:10:16 NET USER DISCONNECT
14 2010/08/24 16:08:31 NET USER CONNECT
15 2010/08/24 16:08:12 NET USER DISCONNECT
16 2010/08/24 16:07:43 NET USER CONNECT
17 2010/08/24 16:06:51 NET USER DISCONNECT
18 2010/08/24 16:05:50 NET USER CONNECT
19 2010/08/24 16:05:31 NET USER DISCONNECT
20 2010/08/24 16:05:00 NET USER CONNECT
21 2010/08/24 16:04:43 NET USER DISCONNECT

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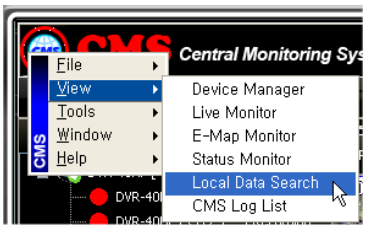
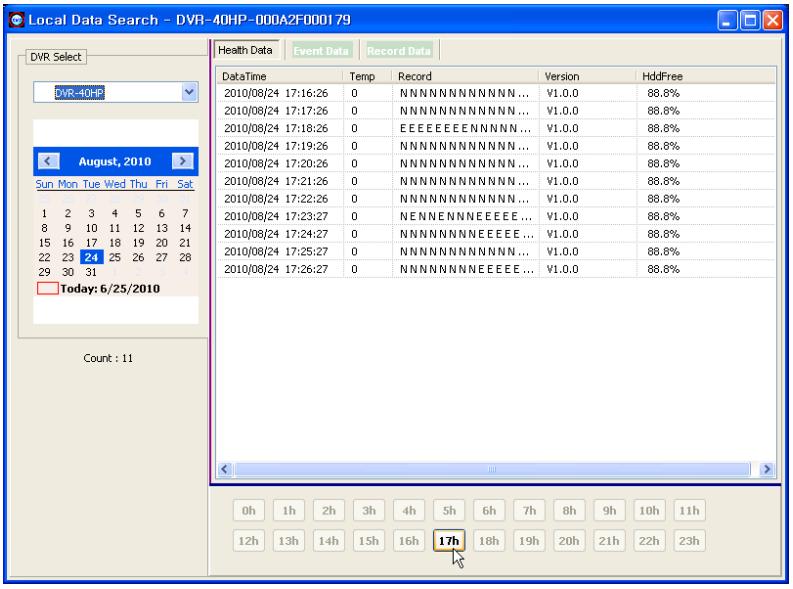
10.3 Health Data Log

Health Status gives a detail about the status of the DVR in terms of date & time, temperature, record status, Firmware Version and available HDD space.



By clicking on the 'Local Data Search' under the View menu, the 'Log Data Search' window appears as shown below.


Local Data Search - DVR-40HP-000A2F000179
DVR Select
DVR-40HP
August, 2010
Sun Mon Tue Wed Thu Fri Sat
Today: 6/25/2010
Count : 11
Health Data
Event Data
Record Data
DataTime Temp Record Version HddFree
2010/08/24 17:16:26 0 NNNNNNNNNNNN... V1.0.0 88.8%
2010/08/24 17:17:26 0 NNNNNNNNNNNN... V1.0.0 88.8%
2010/08/24 17:18:26 0 EEEEEEEENNNNN... V1.0.0 88.8%
2010/08/24 17:19:26 0 NNNNNNNNNNNN... V1.0.0 88.8%
2010/08/24 17:20:26 0 NNNNNNNNNNNN... V1.0.0 88.8%
2010/08/24 17:21:26 0 NNNNNNNNNNNN... V1.0.0 88.8%
2010/08/24 17:22:26 0 NNNNNNNNNNNN... V1.0.0 88.8%
2010/08/24 17:23:27 0 NENNENNNEEEEE... V1.0.0 88.8%
2010/08/24 17:24:27 0 NNNNNNNNEEEEE... V1.0.0 88.8%
2010/08/24 17:25:27 0 NNNNNNNNNNNN... V1.0.0 88.8%
2010/08/24 17:26:27 0 NNNNNNNNEEEEE... V1.0.0 88.8%
0h 1h 2h 3h 4h 5h 6h 7h 8h 9h 10h 11h
12h 13h 14h 15h 16h 17h 18h 19h 20h 21h 22h 23h

Using the calendar and the 'Hour' buttons, you can select the date and time of a particular DVR which is chosen in the 'DVR Select' combo box. The logs are displayed immediately after selection.

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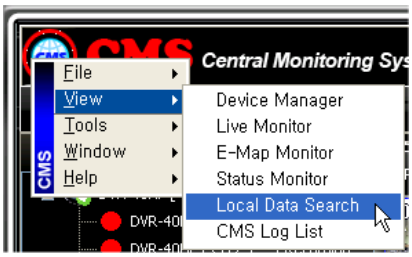
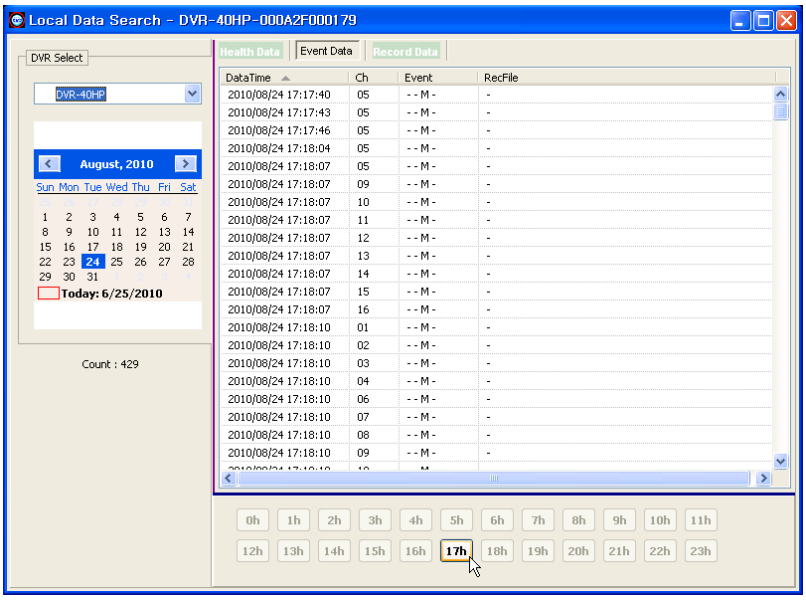
10.4 Event Data Log

This gives the details of the event like the date, time, channel number, event type and the recorded file name if recorded.



By clicking on the 'Event Data' under the 'Local Data Search', the 'Log Data Search' window appears as shown below.



Using the calendar and the 'Hour' buttons, you can select the date and time of a particular DVR which is chosen in the 'DVR Select' combo box. The logs are displayed immediately after selection.

Each character under the 'Event' column has the meaning of 'A➔ Alarm', 'V➔ Video Loss', 'M➔ Motion Detection' and ' - ➔ No Event'.

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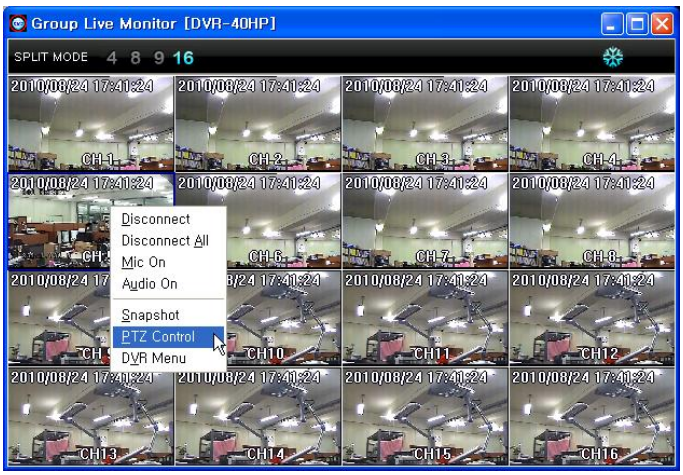
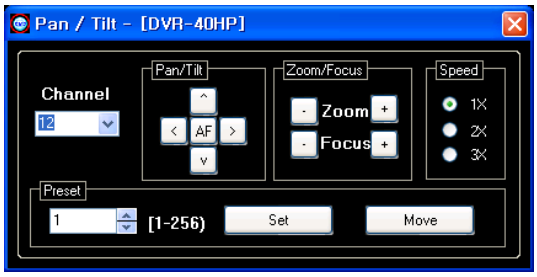
11. Miscellaneous Function

11.1 PTZ

The PTZ camera connected to the DVR can be controlled by the CMS as well.



The 'PTZ Control' item of the pop up menu open the 'PTZ Control' window as shown below.



- **Channel**

  The PTZ camera number connected to the DVR.

- **Pan/Tilt/Auto Focus**

  Pan and tilt the camera using the direction buttons and click 'AF' if you want to use the 'Auto Focus' of the PTZ camera.

- **Zoom/Focus**

  Manual zoom and focus control.

- **Speed**

  The moving speed for the pan, tilt and zoom

- **Preset**

  - **Preset Number**

    The preset number of the PTZ camera. The value of 1~256 is available.

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- **Set**

  Save the current position and parameters to the specified preset number of the PTZ camera

- **Move**

  Let the PTZ camera move to the set position.

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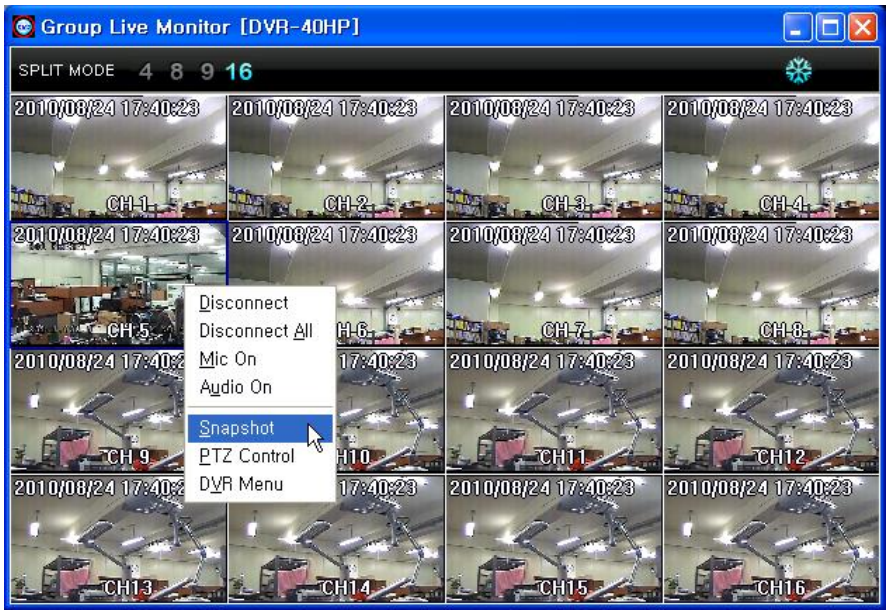
11.2 Snapshot on the Live Monitor

You can take a snapshot of a particular channel by clicking on the 'Snapshot' item on the pop up menu.



The captured image can be saved as 'BMP' or 'JPEG' format and be printed out by the 'Print' button.

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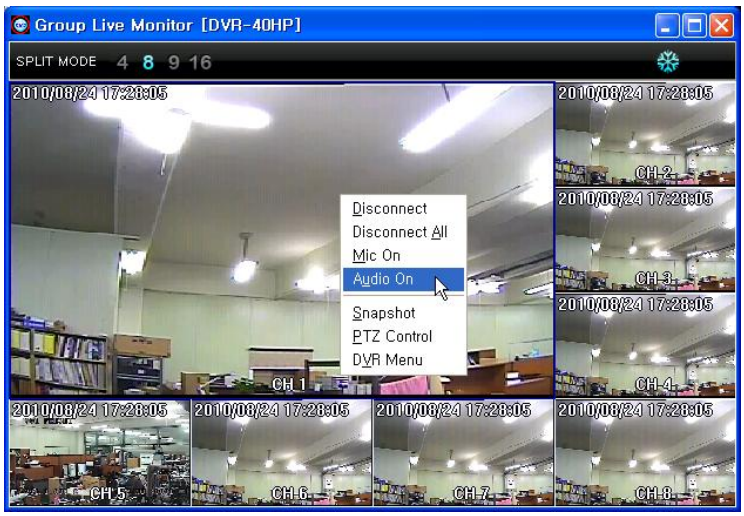
11.3 Audio Transmission

CMS and the DVR of Artnix support the audio transmission in both direction as full duplex.

You can turn on or off the audio of a particular channel by clicking on the 'Audio& Mic ON' icon.



- **Mic On**

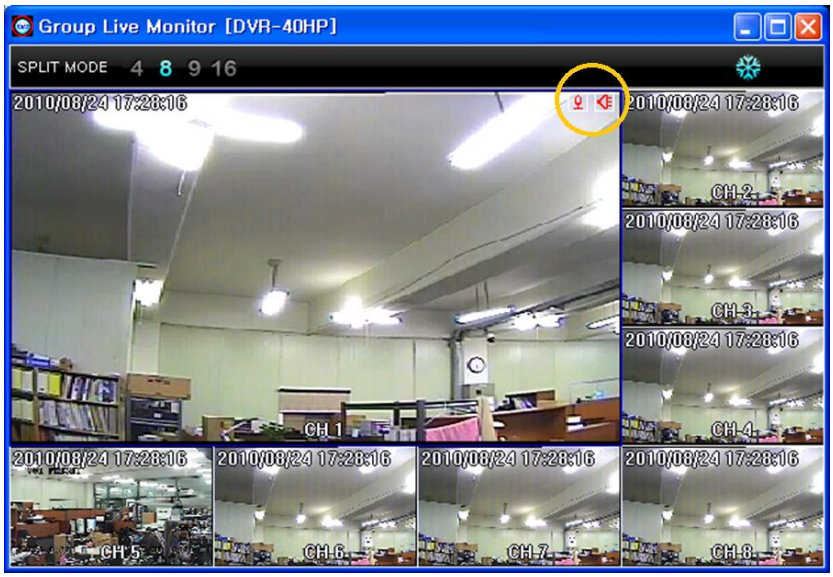
  Enable to transfer the audio from the PC to the DVR

  NOTE: DVR won't output the transferred audio during the playback.

- **Audio On**

  Enable to transfer the audio from the DVR to the PC and output it

Indication whether the 'Mic/Audio' is on or not



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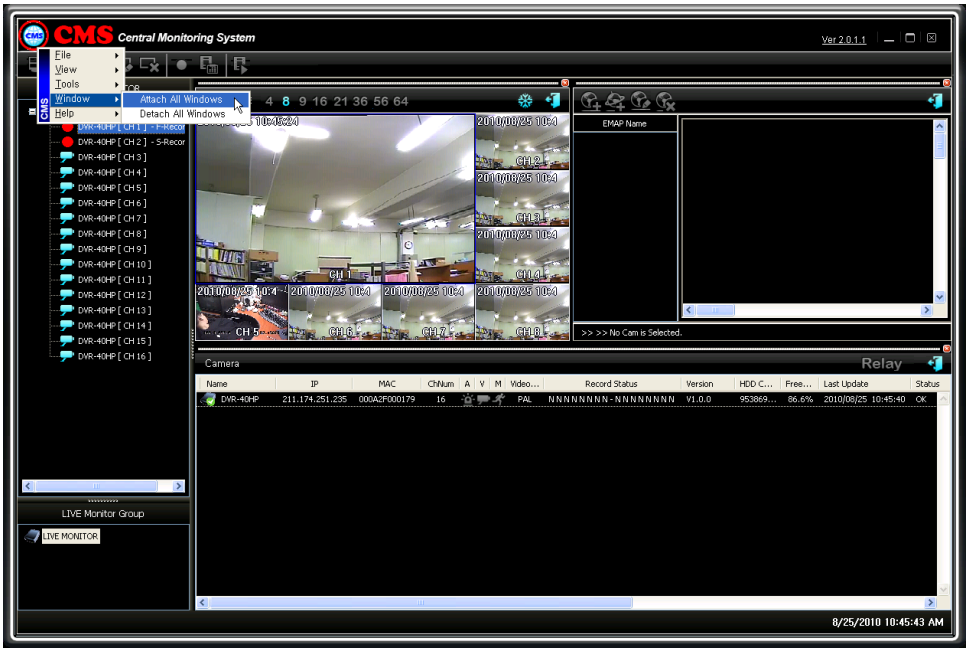
11.4 Arrange Live Windows

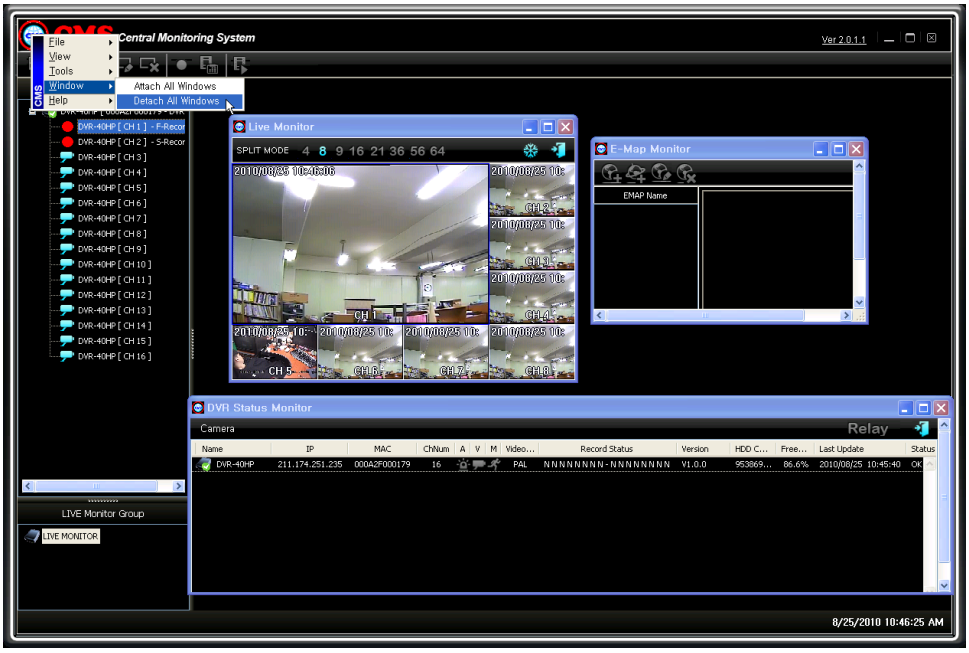
CMS provides the 'Attach/Detach' functions so as to enable using the multiple monitor.

Click on "Window" and then click on "Attach All Windows" to dock the all open windows in to the main window like shown in the below picture.



Click on "Window" and then click on "Detach All Windows" and locate the each window as you want to.

And all open windows will be displayed separately, so you can display each window to different monitor. It's useful in case of managing with many monitors.



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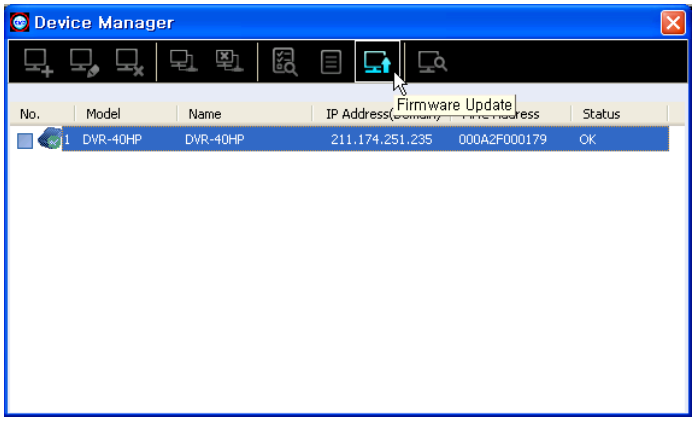
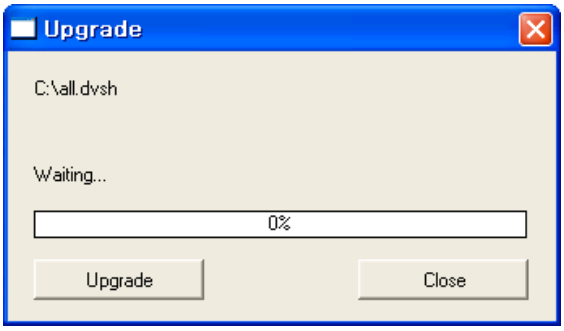
11.5 Firmware update

'Device Manager' provides the function to upgrade the DVR remotely. Clicking the 'Firmware Update' icon on the tool bar activates the upgrade operation for the selected DVR in the list. After choosing the F/W file of the DVR, normally named as 'all.dvsh or all.dvi', CMS starts the actual uploading the F/W and programming it on the DVR.



Upgrade progressing window. Upgrading takes 5 or 10 minutes to be done.



CMS will show the result of upgrading as 'Failed' or 'Success'.

NOTE:

Don't do any operation during the upgrade process to avoid from the damage.

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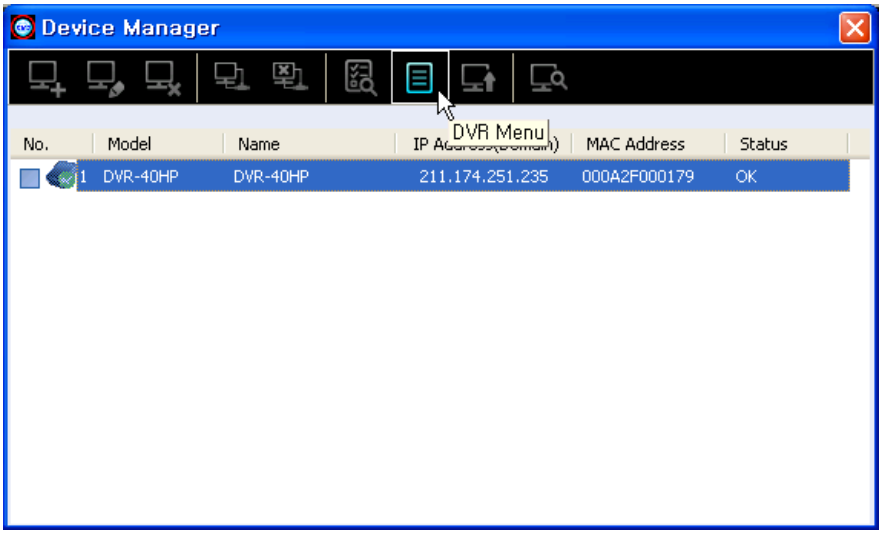
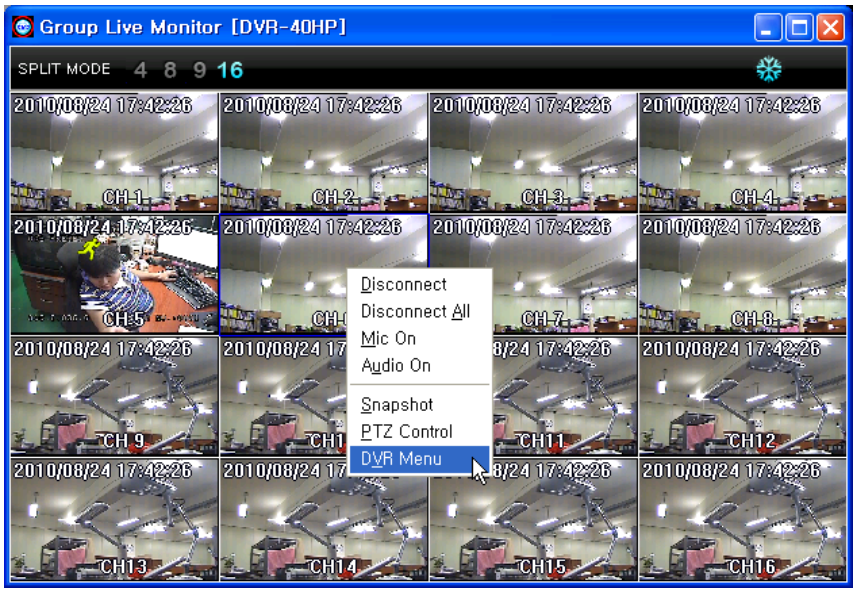
11.6 DVR Menu Setup

Remotely the menu setting of the DVR can be modified. There are two way to call the setup page of the DVR. The first is to click the 'DVR menu' icon in the 'Device Manager'. And the other is available on the 'View Grouping by DVR' from the 'Live Monitor' window. Please refer the below two pictures for easy understanding.



Device Manager



View Grouping by DVR from the 'Live Monitor'

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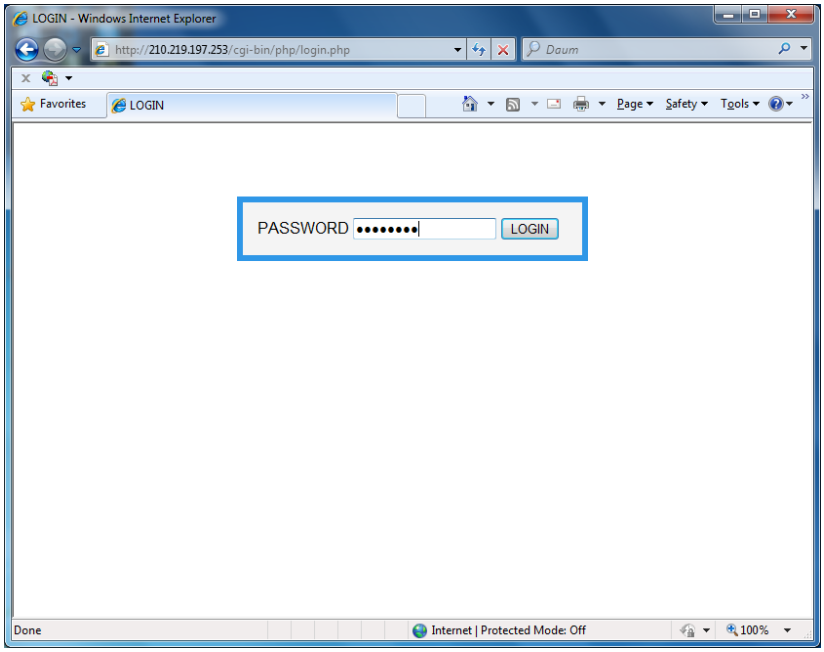
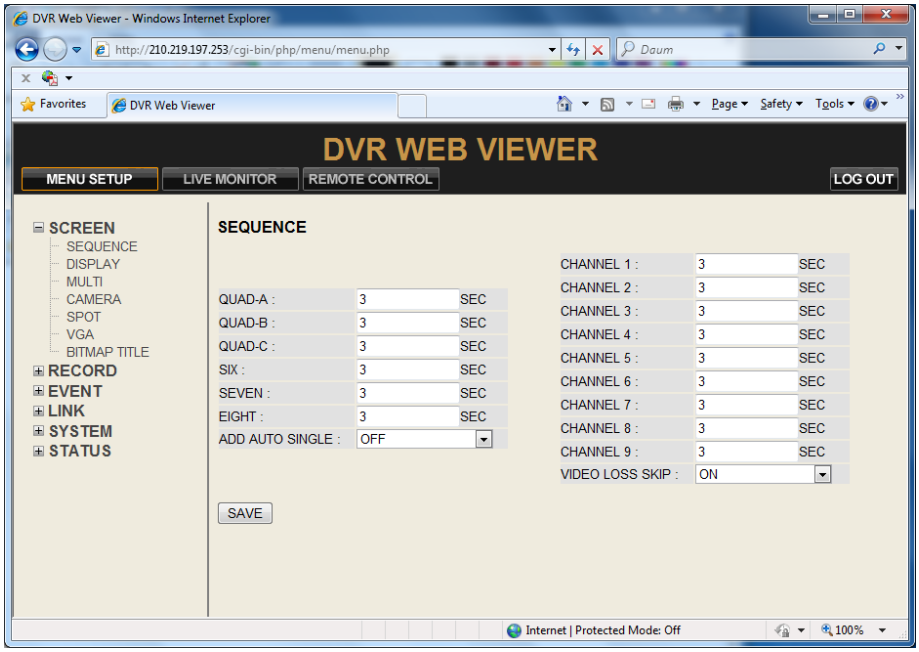
The setup of the H+ series DVR is embedded on the internal web server of the DVR. And the setup of the H series DVR will constructed by the dedicated 'Menu Viewer' but not yet implemented.



Login Page of the DVR Web Server



Setup Page in the DVR Web Server

About the menu setting of DVR and web page, please refer to the user's guide of the DVR.

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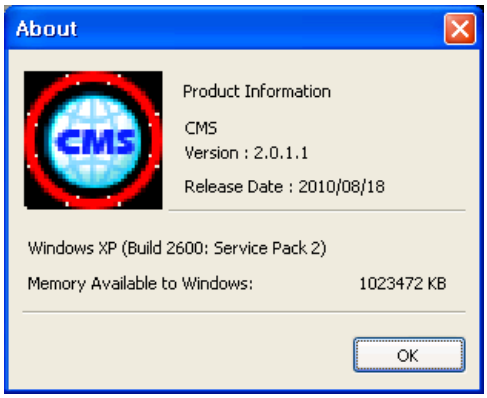
11.7 About

From the 'About' window, you can know the some information like a version of the CMS, and the release date. The 'About' window is open by clicking on the 'Help/About' menu. Refer to the below pictures.



Thank you very much
for your selection of the product
from Artnix

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